

L Number	Hits	Search Text	DB	Time stamp
-	25	US-5489363-\$.DID. OR US-5536366-\$.DID. OR US-5547012-\$.DID. OR US-5575890-\$.DID. OR US-5620562-\$.DID. OR US-5662775-\$.DID. OR US-5824188-\$.DID. OR US-5849151-\$.DID. OR US-5925216-\$.DID. OR US-5958181-\$.DID. OR US-6063238-\$.DID. OR US-6086712-\$.DID. OR US-6132556-\$.DID. OR US-6159337-\$.DID. OR US-6179958-\$.DID. OR US-6280568-\$.DID. OR US-6346167-\$.DID.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/10 16:26
-	17	ep-755983-\$.did. 5731385.pn. 5654376.pn. 5800963.pn. 6051364.pn.ep-915103-\$.did. 6225395.pn.jp-6306251-\$.did. jp-6220145-\$.did. ep-452696-\$.did. 5134188.pn. 4421892.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/10 16:32

EAST - [10019161.wsp.1]

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 (17) ep-755983-\$ did. 5731385.pn. 5654376.pn. 58
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 US-5575890-\$ DID. OR US-5620562-\$ DID. OR US-5662775-\$ DID. OR
 US-5824188-\$ DID. OR US-5849151-\$ DID. OR US-5925216-\$ DID. OR
 US-5958181-\$ DID. OR US-6063238-\$ DID. OR US-6086712-\$ DID. OR
 US-6132556-\$ DID. OR US-6159337-\$ DID. OR US-6179958-\$ DID. OR
 US-6280568-\$ DID. OR US-6346167-\$ DID.

BRB term Risk term Image Text HTML

	U	I	PT	Document ID	Issue Date	Pages	Title	Current OR	Current XRe	Retrieval C	Invent
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6346167	20020212	33	Dissolved solids control in pulp production	162/42	162/43; 162/61		Marcoccia, Br
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6280568	20010828	33	Dissolved organic material control in a cellulose pulp con	162/43	162/248; 162/45		Marcoccia, Br
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6179958	20010130	8	Method for continuous cooking of cellulose containin	162/17	162/15; 162/16		Lysen, Claes C
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6159337 A	20001212	33	Dissolved organic materials control in cellulose pulp prod	162/42	162/43; 162/61		Marcoccia, Br
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6132556 A	20001017	14	Method of controlling pulp digester pressure via liquor ext	162/41	162/238; 162/43		Stromberg, C.
6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6086712 A	20000711	34	DOM control in cellulose pulp production	162/42	162/248; 162/43		Marcoccia, Br
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6063238 A	20000516	6	Black liquor impregnation in digester	162/42	162/243; 162/251		Bergqvist, An
8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5958181 A	19990928	8	Continuous cooking with a two stage cool impregnation	162/19	162/39; 162/62		Stromberg, C.
9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5925216 A	19990720	6	Method of continuous pulping	162/37	162/251		Bergqvist, An

Ready NUM

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Jose Tortora Examiner #: 72391 Date: 7/2/03
 Art Unit: 1731 Phone Number 305-7448 Serial Number: 101019161
 Mail Box and Bldg/Room Location: CP3-6F16 Results Format Preferred (circle): PAPER ~~DISK~~ ~~E-MAIL~~

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Process of producing a polymer as claimed in claims, please see ^{some} references with
 composition. Note any composition that gives the polymer in OK, where there
 is concern for the product.

STAFF USE ONLY

Searcher: K. Tortora

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Searcher Location: _____

Date Searcher Picked Up: _____

Date Completed: _____

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AA Sequence (#) _____

Structure (#) 4

Bibliographic _____

Vendors and cost where applicable

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Questel/Orbit _____

Dr. Link _____



STIC Search Report

EIC 1700

STIC Database Tracking Number: 98336

TO: Jose Fortuna
Location: CP3 6 E16
Art Unit : 1731
July 10, 2003

Case Serial Number: 10/019161

From: Kathleen Fuller
Location: EIC 1700
CP3/4 3D62
Phone: 308-4290

Kathleen.Fuller@uspto.gov

Search Notes

=> FILE REG

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STRUCTURE FILE UPDATES: 8 JUL 2003 HIGHEST RN 544651-49-2
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Experimental and calculated property data are now available. See HELP
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 FILE LAST UPDATED: 9 Jul 2003 (20030709/ED)

This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> D QUE

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L6	168911	SEA	FILE=REGISTRY	ABB=ON	PES/PCT
L7	64525	SEA	FILE=REGISTRY	ABB=ON	100-42-5/CRN
L8	22170	SEA	FILE=REGISTRY	ABB=ON	108-31-6/CRN
L9	5254	SEA	FILE=REGISTRY	ABB=ON	L7 AND L8
L10	444	SEA	FILE=REGISTRY	ABB=ON	109-55-7/CRN
L11	6	SEA	FILE=REGISTRY	ABB=ON	L9 AND L10
L12	79	SEA	FILE=REGISTRY	ABB=ON	L9 AND DIAMINE

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 L30 383 SEA FILE=HCAPLUS ABB=ON L17(L)(PREP OR IMF OR SPN)/RL
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 L33 87 SEA FILE=HCAPLUS ABB=ON L32 AND (COMPNS OR COMPOSITION?)
 L34 2 SEA FILE=HCAPLUS ABB=ON L33 AND (AQ OR AQUEOUS? OR H2O OR
 WATER?)(4A)DISPERS?
 L35 1 SEA FILE=HCAPLUS ABB=ON L33 AND CATION?(5A)DISPERS?
 L36 10 SEA FILE=HCAPLUS ABB=ON L33 AND DISPERS?
 L37 0 SEA FILE=HCAPLUS ABB=ON L33 AND SIZ?
 L38 0 SEA FILE=HCAPLUS ABB=ON L33 AND PAPER?/SC,SX
 L39 10 SEA FILE=HCAPLUS ABB=ON (L34 OR L35 OR L36 OR L37 OR L38)
 L40 6 SEA FILE=HCAPLUS ABB=ON L32 AND DISPERSION?(5A)(AQ OR
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 L41 99 SEA FILE=HCAPLUS ABB=ON (L21 OR L23 OR L31)(L)?ACRYL?
 L42 4 SEA FILE=HCAPLUS ABB=ON L41 AND DISPERSION?(5A)(AQ OR
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 L43 14 SEA FILE=HCAPLUS ABB=ON L39 OR L40 OR L42
 L44 180 SEA FILE=HCAPLUS ABB=ON (L21 OR L23 OR L31) AND ?STYREN?
 L45 6 SEA FILE=HCAPLUS ABB=ON L44 AND DISPERSION?(5A)(AQ OR
 AQUEOUS? OR H2O OR WATER? OR CATION?)
 L46 14 SEA FILE=HCAPLUS ABB=ON L43 OR L45

=> D L46 ALL 1-14 HITSTR

L46 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 2003:154469 HCAPLUS

DN 138:171051

TI **Aqueous** solution, **dispersion** or suspension of imide
 polymer having low glass transition temperature for glues

IN Friederichs, Joseph Petronella

PA DSM N.V., Neth.

SO PCT Int. Appl., 12 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C08F008-30

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2003016361 A1 20030227 WO 2002-NL544 20020813
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

NL 1018764 C1 20030218 NL 2001-1018764 20010815
 PRAI NL 2001-1018764 A 20010815

AB The **aq. soln., dispersion** or suspension of a second polymer having glass transition temp. .gtoreq.10.degree. is obtained by converting in a first polymer prep. from (a) 15-50 mol% unsatd. anhydride monomer units (e.g., maleic anhydride), (b) 0-85 mol% vinyl arom. monomer units (e.g., **styrene**), (c) 0-85 mol% aliph. vinyl monomer units, wherein at least a part of the anhydride monomer units in first polymer are reacted with a compd. contg. a terminal amine group (e.g., amino-terminated ethylene oxide-propylene oxide copolymer monomethyl ether) to form an imide monomer units.

ST maleic anhydride **styrene** copolymer imidization adhesive; water thinned glue imide polymer; amino polyoxyalkylene maleic anhydride **styrene** copolymer reaction

IT Adhesives
 (aq. soln., **dispersion** or suspension of imide polymer having low glass transition temp. for glues)

IT Polyoxyalkylenes, preparation
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (graft polymers; **aq. soln., dispersion** or suspension of imide polymer having low glass transition temp. for glues)

IT Paper
 (wallpaper; **aq. soln., dispersion** or suspension of imide polymer having low glass transition temp. for glues of)

IT **303154-91-8P**, Ethylene oxide-maleic anhydride-propylene oxide-**styrene** graft copolymer, methyl ether
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (aq. soln., **dispersion** or suspension of imide polymer having low glass transition temp. for glues)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
 (1) Dsm N V; WO 9945039 A 1999 HCAPLUS
 (2) Hoechst Ag; EP 0688796 A 1995 HCAPLUS
 (3) Huntsman Petrochemical Corporation; WO 9802490 A 1998 HCAPLUS
 (4) Mbt Holding Ag; WO 0035965 A 2000 HCAPLUS
 (5) Skw Trostberg Ag; DE 19808314 A 1999 HCAPLUS
 (6) W R Grace & Co -Conn; WO 9700898 A 1997 HCAPLUS

IT **303154-91-8P**, Ethylene oxide-maleic anhydride-propylene oxide-**styrene** graft copolymer, methyl ether
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (aq. soln., **dispersion** or suspension of imide polymer having low glass transition temp. for glues)

RN 303154-91-8 HCAPLUS
 CN 2,5-Furandione, polymer with ethenylbenzene, methyloxirane and oxirane,
 methyl ether, graft (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

H₃C—OH

CM 2

CRN 303154-90-7

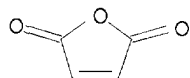
CMF (C8 H8 . C4 H2 O3 . C3 H6 O . C2 H4 O)x

CCI PMS

CM 3

CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 100-42-5

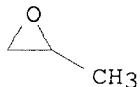
CMF C8 H8

H₂C=CH—Ph

CM 5

CRN 75-56-9

CMF C3 H6 O



CM 6

CRN 75-21-8

CMF C2 H4 O



L46 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 2003:68818 HCAPLUS

DN 138:124007

TI Anticorrosive aqueous coating **compositions** with processability

IN Yokoi, Hideo; Inomata, Takashi; Hirose, Yuji

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D167-06

ICS C09D005-02; C09D151-08; C08F290-06

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003026992	A2	20030129	JP 2001-219783	20010719
PRAI	JP 2001-219783		20010719		

AB Title **compsn.** contain (a) acrylic modified polyesters prepd. by graft polymn. of ethylenic unsatd. group-terminated polyesters having no.-av. mol. wt. of 2,000-50,000 with COOH-contg. unsatd. monomers and (b) .beta.-hydroalkylamide crosslinkers Q1mAQ2n [A = (un)satd. or arom. polyvalent C2-20 org. group residue; Q1 = HOCR1HCH2NR2CO; Q2 = HOCR3HCH2NR4CO; R1, R3 = H or C1-5 alkyl; R2, R4 = H, C1-5 alkyl, HOCR5HCH2 with R5 = H or C1-5 alkyl; m = 1-2; n = 0-2 with m + n .gtoreq.2]. An aq. **compn.** contg. Primid XL 552 and a graft resin (from Et acrylate, Me methacrylate, styrene, and cyclohexanediacid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane copolymer maleic anhydride ester) **dispersion** was coated on a steel plate and baked at 200.degree. for 3 min to form a plate showing void-free surface, no crack after 180.degree. bending and punching with 1-kg steel dart from 50-cm height, good anticorrosion (aq. salt soln. spraying for 3 wk), and adhesion between the coating film and steel.

ST anticorrosion processability aq acrylic polyester coating hydroxyalkylamide crosslinker

IT Polyesters, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic, crosslinked; .beta.-hydroxyalkylamide-curable acrylic polyester aq. coatings with anticorrosion and processability)

IT Coating materials
(water-thinned; .beta.-hydroxyalkylamide-curable acrylic polyester aq. coatings with anticorrosion and processability)

IT **490041-24-2P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** XL 552 copolymer **490041-25-3P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-glycerol-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-26-4P**, Cyclohexanedicarboxylic acid-isophthalic

acid-terephthalic acid-ethylene glycol-propylene glycol-trimethylolpropane-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-27-5P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-tetrahydrophthalic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-28-6P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-1,4-butanediol-ethylene glycol-propylene glycol-glycerol-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-29-7P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-30-0P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-maleic anhydride-terahydrophthalic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer

RL: **IMF (Industrial manufacture)**; TEM (Technical or engineered material use); **PREP (Preparation)**; **USES (Uses)**

(crosslinked; .beta.-hydroxyalkylamide-curable acrylic polyester aq. coatings with anticorrosion and processability)

IT **490041-24-2P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** XL 552 copolymer **490041-25-3P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-glycerol-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-26-4P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-propylene glycol-trimethylolpropane-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-27-5P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-tetrahydrophthalic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-28-6P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-1,4-butanediol-ethylene glycol-propylene glycol-glycerol-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-29-7P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-maleic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer **490041-30-0P**, Cyclohexanedicarboxylic acid-isophthalic acid-terephthalic acid-ethylene glycol-trimethylolpropane-maleic anhydride-terahydrophthalic anhydride-ethyl acrylate-methacrylic acid-styrene-**Primid** QM 1260 copolymer

RL: **IMF (Industrial manufacture)**; TEM (Technical or engineered material use); **PREP (Preparation)**; **USES (Uses)**

(crosslinked; .beta.-hydroxyalkylamide-curable acrylic polyester aq. coatings with anticorrosion and processability)

RN 490041-24-2 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, cyclohexanedicarboxylic acid, 1,2-ethanediol, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, ethyl 2-propenoate, 2,5-furandione, 2-methyl-2-propenoic acid and N,N,N',N'-tetrakis(2-hydroxyethyl)hexanediamide (9CI) (CA INDEX NAME)

CM 1

CRN 31290-91-2

CMF C8 H12 O4

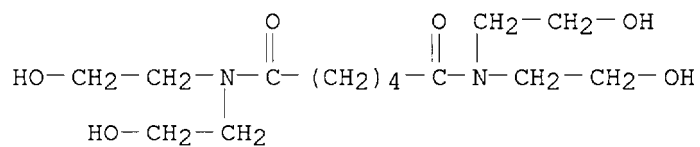
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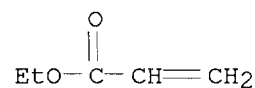
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CRN 6334-25-4
CMF C14 H28 N2 O6



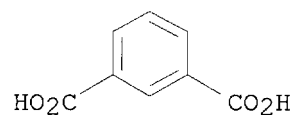
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CRN 140-88-5
CMF C5 H8 O2



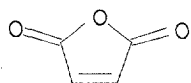
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CRN 121-91-5
CMF C8 H6 O4



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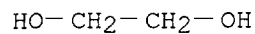
CRN 108-31-6
CMF C4 H2 O3



CM 6

CRN 107-21-1

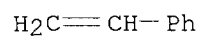
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CRN 100-42-5

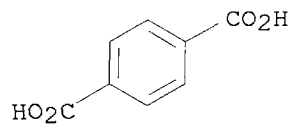
CMF C8 H8



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CRN 100-21-0

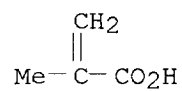
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CRN 79-41-4

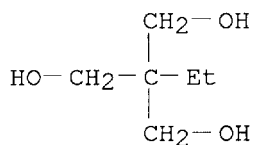
CMF C4 H6 O2



CM 10

CRN 77-99-6

CMF C6 H14 O3



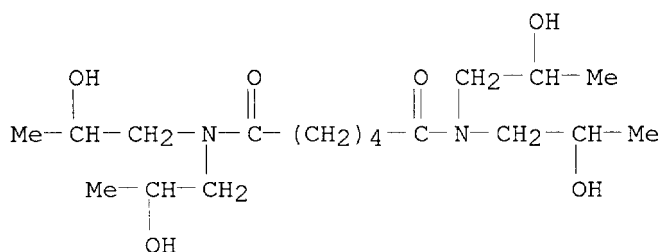
RN 490041-25-3 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, cyclohexanedicarboxylic acid, 1,2-ethanediol, ethenylbenzene, ethyl 2-propenoate, 2,5-furandione, 2-methyl-2-propenoic acid, 1,2,3-propanetriol and N,N,N',N'-tetrakis(2-hydroxypropyl)hexanediamide (9CI) (CA INDEX NAME)

CM 1

CRN 57843-53-5

CMF C18 H36 N2 O6



CM 2

CRN 31290-91-2

CMF C8 H12 O4

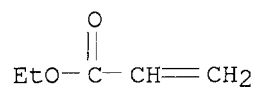
CCI IDS

2 [D1-CO₂H]

CM 3

CRN 140-88-5

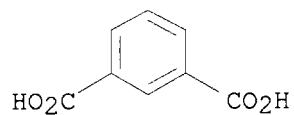
CMF C5 H8 O2



CM 4

CRN 121-91-5

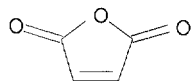
CMF C8 H6 O4



CM 5

CRN 108-31-6

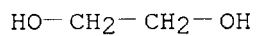
CMF C4 H2 O3



CM 6

CRN 107-21-1

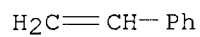
CMF C2 H6 O2



CM 7

CRN 100-42-5

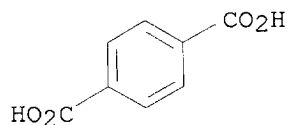
CMF C8 H8



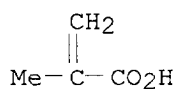
CM 8

CRN 100-21-0

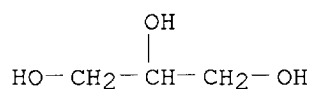
CMF C8 H6 O4



CM 9

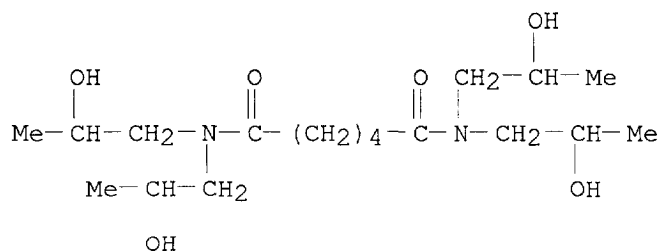
CRN 79-41-4
CMF C4 H6 O2

CM 10

CRN 56-81-5
CMF C3 H8 O3

RN 490041-26-4 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid,
 cyclohexanedicarboxylic acid, 1,2-ethanediol, ethenylbenzene,
 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, ethyl 2-propenoate,
 2,5-furandione, 2-methyl-2-propenoic acid, 1,2-propanediol and
 N,N,N',N'-tetrakis(2-hydroxypropyl)hexanediamide (9CI) (CA INDEX NAME)

CM 1

CRN 57843-53-5
CMF C18 H36 N2 O6

CM 2

CRN 31290-91-2

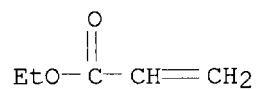
CMF C8 H12 O4
CCI IDS



2 [D1-CO₂H]

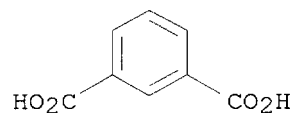
CM 3

CRN 140-88-5
CMF C5 H8 O2



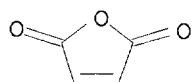
CM 4

CRN 121-91-5
CMF C8 H6 O4



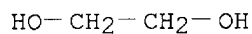
CM 5

CRN 108-31-6
CMF C4 H2 O3



CM 6

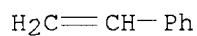
CRN 107-21-1
CMF C2 H6 O2



CM 7

CRN 100-42-5

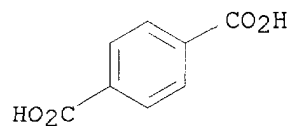
CMF C8 H8



CM 8

CRN 100-21-0

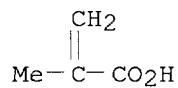
CMF C8 H6 O4



CM 9

CRN 79-41-4

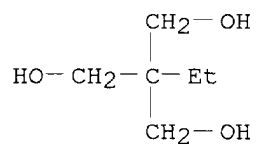
CMF C4 H6 O2



CM 10

CRN 77-99-6

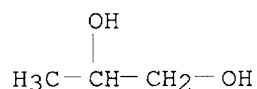
CMF C6 H14 O3



CM 11

CRN 57-55-6

CMF C3 H8 O2



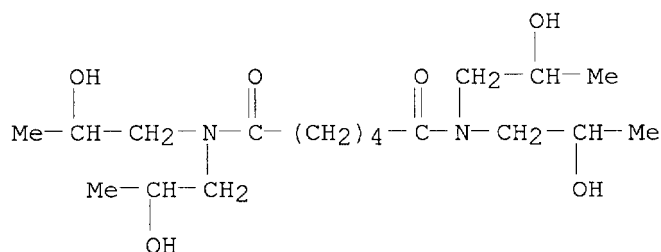
RN 490041-27-5 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, cyclohexanedicarboxylic acid, 1,2-ethanediol, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, ethyl 2-propenoate, 2-methyl-2-propenoic acid, 3a,4,7,7a-tetrahydro-1,3-isobenzofurandione and N,N,N',N'-tetrakis(2-hydroxypropyl)hexanediamide (9CI) (CA INDEX NAME)

CM 1

CRN 57843-53-5

CMF C18 H36 N2 O6

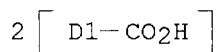


CM 2

CRN 31290-91-2

CMF C8 H12 O4

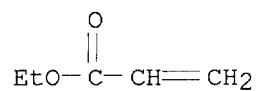
CCI IDS



CM 3

CRN 140-88-5

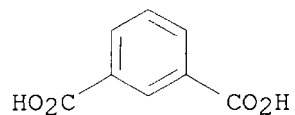
CMF C5 H8 O2



CM 4

CRN 121-91-5

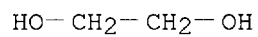
CMF C8 H6 O4



CM 5

CRN 107-21-1

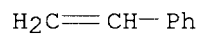
CMF C2 H6 O2



CM 6

CRN 100-42-5

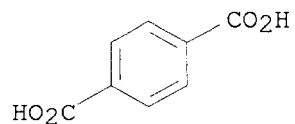
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CM 7

CRN 100-21-0

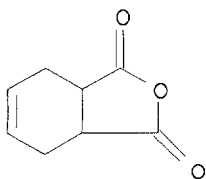
CMF C8 H6 O4



CM 8

CRN 85-43-8

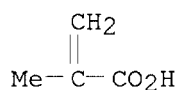
CMF C8 H8 O3



CM 9

CRN 79-41-4

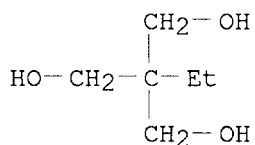
CMF C4 H6 O2



CM 10

CRN 77-99-6

CMF C6 H14 O3



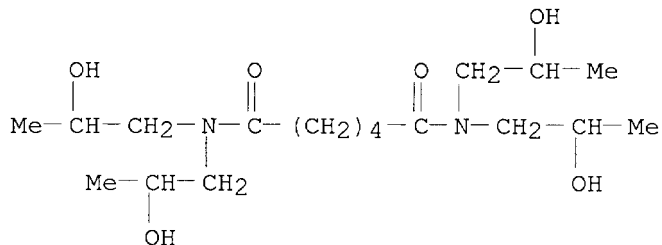
RN 490041-28-6 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, 1,4-butanediol, cyclohexanedicarboxylic acid, 1,2-ethanediol, ethenylbenzene, ethyl 2-propenoate, 2,5-furandione, 2-methyl-2-propenoic acid, 1,2-propanediol, 1,2,3-propanetriol and N,N,N',N'-tetrakis(2-hydroxypropyl)hexanediamide (9CI) (CA INDEX NAME)

CM 1

CRN 57843-53-5

CMF C18 H36 N2 O6



CM 2

CRN 31290-91-2

CMF C8 H12 O4

CCI IDS

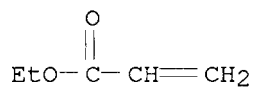


2 [D1-CO₂H]

CM 3

CRN 140-88-5

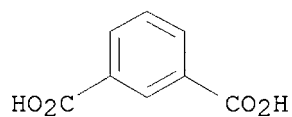
CMF C5 H8 O2



CM 4

CRN 121-91-5

CMF C8 H6 O4



CM 5

CRN 110-63-4

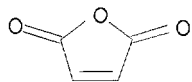
CMF C4 H10 O2

HO-(CH₂)₄-OH

CM 6

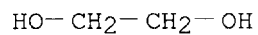
CRN 108-31-6

CMF C4 H2 O3



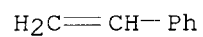
CM 7

CRN 107-21-1
CMF C2 H6 O2



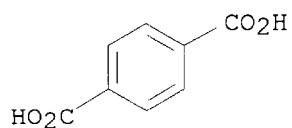
CM 8

CRN 100-42-5
CMF C8 H8



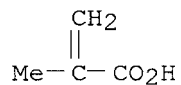
CM 9

CRN 100-21-0
CMF C8 H6 O4



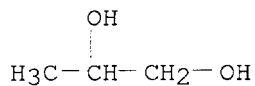
CM 10

CRN 79-41-4
CMF C4 H6 O2



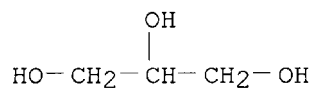
CM 11

CRN 57-55-6
CMF C3 H8 O2



CM 12

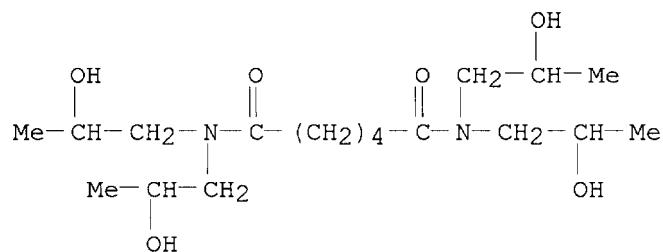
CRN 56-81-5
CMF C3 H8 O3



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CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, cyclohexanedicarboxylic acid, 1,2-ethanediol, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, ethyl 2-propenoate, 2,5-furandione, 2-methyl-2-propenoic acid and N,N,N',N'-tetrakis(2-hydroxypropyl)hexanediamide (9CI) (CA INDEX NAME)

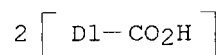
CM 1

CRN 57843-53-5
CMF C18 H36 N2 O6



CM 2

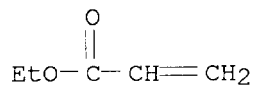
CRN 31290-91-2
CMF C8 H12 O4
CCI IDS



CM 3

CRN 140-88-5

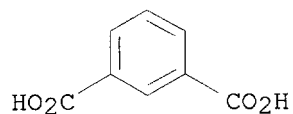
CMF C5 H8 O2



CM 4

CRN 121-91-5

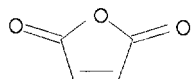
CMF C8 H6 O4



CM 5

CRN 108-31-6

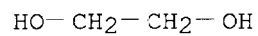
CMF C4 H2 O3



CM 6

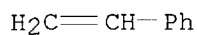
CRN 107-21-1

CMF C2 H6 O2



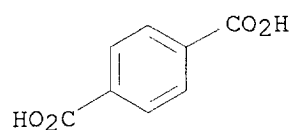
CM 7

CRN 100-42-5
CMF C8 H8



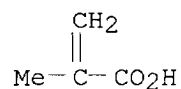
CM 8

CRN 100-21-0
CMF C8 H6 O4



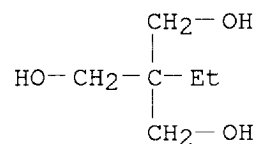
CM 9

CRN 79-41-4
CMF C4 H6 O2



CM 10

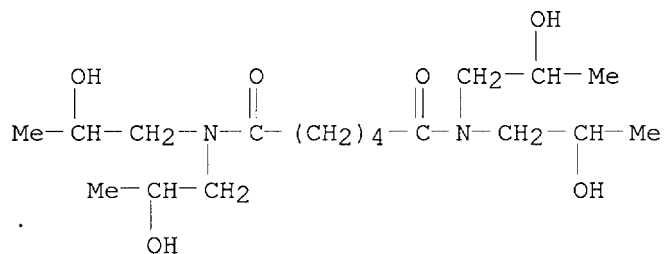
CRN 77-99-6
CMF C6 H14 O3



RN 490041-30-0 HCAPLUS
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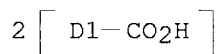
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CRN 57843-53-5
CMF C18 H36 N2 O6



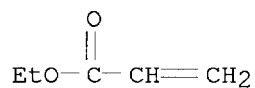
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CRN 31290-91-2
CMF C8 H12 O4
CCI IDS



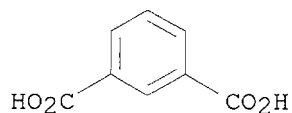
CM 3

CRN 140-88-5
CMF C5 H8 O2



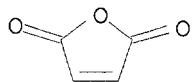
CM 4

CRN 121-91-5
CMF C8 H6 O4



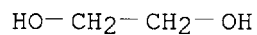
CM 5

CRN 108-31-6
CMF C4 H2 O3



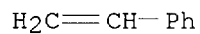
CM 6

CRN 107-21-1
CMF C2 H6 O2



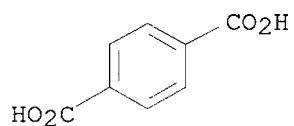
CM 7

CRN 100-42-5
CMF C8 H8



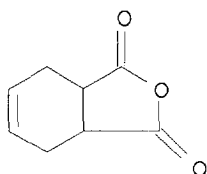
CM 8

CRN 100-21-0
CMF C8 H6 O4



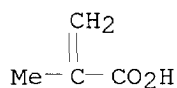
CM 9

CRN 85-43-8
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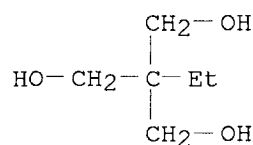
CM 10

CRN 79-41-4
CMF C4 H6 O2



CM 11

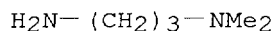
CRN 77-99-6
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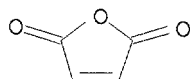
L46 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2003 ACS
AN 2000:911309 HCAPLUS
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TI Hydrophobic **cationic dispersions** stabilized by low
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IN Betremieux, Isabelle; Dumousseaux, Christophe; Verge, Christophe; Feret,
Bruno; Flat, Jean-Jacques
PA Atofina, Fr.
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DT Patent
LA French
IC ICM C08F002-28
CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
FAN.CNT 1

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	ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,				
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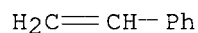
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 ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 FR 2795076 A1 20001222 FR 1999-7910 19990621
 EP 1194454 A1 20020410 EP 2000-951612 20000620
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 JP 2003502486 T2 20030121 JP 2001-505575 20000620
 PRAI FR 1999-7910 A 19990621
 WO 2000-FR1692 W 20000620
 AB The invention concerns a method for obtaining an **aq.**
dispersion of hydrophobic polymers such as Bu **acrylate-**
styrene copolymer dispersed in the form of particles with mean
 diam. less than 100 nm stabilized solely with a cationic macromol.
 surfactant based on low mol. wt. **styrene/maleic anhydride imide**
 copolymer. The invention also concerns the use of said dispersion for
 treating and sizing paper.
 ST **cationic dispersion** sizing agent paper; maleimide salt
 polymer dispersant sizing agent paper; butyl **acrylate**
styrene copolymer dispersion sizing agent paper
 IT Dispersing agents
 (**cationic**; hydrophobic **cationic dispersions**
 stabilized by low mol. wt. maleimide copolymers for paper sizing)
 IT Paper
 Sizes (agents)
 (hydrophobic **cationic dispersions** stabilized by low
 mol. wt. maleimide copolymers for paper sizing)
 IT **109-55-7DP**, N,N-Dimethylpropylenediamine, imides with maleic
 anhydride-**styrene** copolymer, acetate salts **9011-13-6DP**
 , Maleic anhydride-**styrene** copolymer, **imides** with
 dimethylpropylenediamine, acetate salts
 RL: **IMF (Industrial manufacture)**; MOA (Modifier or additive
 use); TEM (Technical or engineered material use); **PREP**
 (**Preparation**); USES (Uses)
 (hydrophobic **cationic dispersions** stabilized by low
 mol. wt. **maleimide** copolymers for paper sizing)
 IT **25767-47-9P**, Butyl **acrylate-styrene** copolymer
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material
 use); **PREP (Preparation)**; USES (Uses)
 (sizing agent; hydrophobic **cationic dispersions**
 stabilized by low mol. wt. maleimide copolymers for paper sizing)
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Elf Atochem; EP 0810323 A 1997 HCAPLUS
 (2) Verdol, J; US 3444151 A 1969 HCAPLUS
 IT **109-55-7DP**, N,N-Dimethylpropylenediamine, imides with maleic
 anhydride-**styrene** copolymer, acetate salts **9011-13-6DP**
 , Maleic anhydride-**styrene** copolymer, **imides** with
 dimethylpropylenediamine, acetate salts
 RL: **IMF (Industrial manufacture)**; MOA (Modifier or additive
 use); TEM (Technical or engineered material use); **PREP**
 (**Preparation**); USES (Uses)
 (hydrophobic **cationic dispersions** stabilized by low
 mol. wt. **maleimide** copolymers for paper sizing)
 RN 109-55-7 HCAPLUS
 CN 1,3-Propanediamine, N,N-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



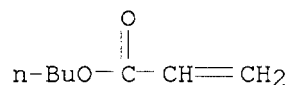
RN 9011-13-6 HCAPLUS
 CN 2,5-Furandione, polymer with ethenylbenzene (9CI) (CA INDEX NAME)
 CM 1
 CRN 108-31-6
 CMF C4 H2 O3



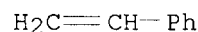
CM 2
 CRN 100-42-5
 CMF C8 H8



IT **25767-47-9P**, Butyl **acrylate-styrene** copolymer
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (sizing agent; hydrophobic **cationic dispersions** stabilized by low mol. wt. maleimide copolymers for paper sizing)
 RN 25767-47-9 HCAPLUS
 CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)
 CM 1
 CRN 141-32-2
 CMF C7 H12 O2



CM 2
 CRN 100-42-5
 CMF C8 H8



L46 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2003 ACS
 AN 2000:699207 HCAPLUS
 DN 133:282232
 TI Branched polyolefin polymers as additives in fuel and lubricating oil
compositions
 IN Janssen, Koen Jan Gerarda; Bostoen, Claude Leo
 PA DSM Copolymer, Inc., Neth.
 SO U.S., 30 pp., Cont.-in-part of U.S. 6,084,030.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C08G077-12
 NCL 525106000
 CC 35-4 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 51

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6127481	A	20001003	US 1996-683518	19960712
	US 6084030	A	20000704	US 1995-511402	19950804
	CA 2228421	AA	19970220	CA 1996-2228421	19960708
	CN 1198757	A	19981111	CN 1996-197344	19960807
	BR 9703906	A	20000912	BR 1997-3906	19970609
	CA 2207891	AA	19980112	CA 1997-2207891	19970617
	EP 818525	A2	19980114	EP 1997-304774	19970701
	EP 818525	A3	19980204		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	AU 9728608	A1	19980122	AU 1997-28608	19970711
	CN 1172846	A	19980211	CN 1997-114629	19970711
PRAI	US 1995-511402	A2	19950804		
	US 1996-683518	A	19960712		
AB	A branched polyolefin additive, for use in fuel and/or lubricating oil, has a comb, star, nanogel, and structural combinations in which many polyolefin arms (e.g. ethylene-propylene copolymers) are attached to a backbone having repeating units contg. aliph. groups, arom. groups, heteroatom-contg. groups and combinations (e.g. polyhydrosilanes).				
ST	branched polyolefin additive fuel oil; lubricating oil additive branched polyolefin; dispersant detergent additive fuel; viscosity improver lubricating oil				
IT	Fuel oil additives Gasoline additives (branched polyolefin polymers as additives in fuel and lubricating oil compsns.)				
IT	Lubricating oil additives (dispersants ; branched polyolefin polymers as additives in fuel and lubricating oil compsns.)				
IT	Polyvinyl acetals RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses) (formals, reaction products with polyolefins; branched polyolefin polymers as additives in fuel and lubricating oil compsns.)				
IT	Gels (nano-; branched polyolefin polymers as additives in fuel and lubricating oil compsns.)				
IT	Polymer blends				

RL: MOA (Modifier or additive use); USES (Uses)
 (of branched polyolefins; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)

IT Polysiloxanes, preparation
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (polyolefin-, graft, branched, multi-armed; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)

IT Dendritic polymers
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (reaction products with polyolefins; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)

IT Polyolefins
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (siloxane-, graft, branched, multi-armed; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)

IT Lubricating oil additives
 (viscosity improvers; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)

IT 101-54-2DP, N-Phenyl-p-phenylenediamine, reaction products with maleic anhydride-grafted branched polyolefins 108-31-6DP, 2,5-Furandione, reaction products with polyolefins and backbone polymers, preparation **109-55-7DP**, reaction products with maleic anhydride-grafted branched polyolefins 112-57-2DP, reaction products with maleic anhydride-grafted branched polyolefins 280-64-8DP, 9-Borabicyclo[3.3.1]nonane, reaction products with polyolefins 537-65-5DP, 4,4'-Diaminodiphenylamine, reaction products with dendrimers and polyolefins 2038-03-1DP, 4-(2-Aminoethyl)morpholine, reaction products with maleic anhydride-grafted branched polyolefins 2094-99-7DP, Reaction products with polyolefins, Me methacrylate and styrene 7338-27-4DP, Methyl itaconate, reaction products with tris(aminoethyl)benzene and hydroxy-terminated polyolefins 9002-88-4DP, Polyethylene, reaction products with polymeric backbones 9003-07-0DP, Polypropylene, reaction products with polymeric backbones 9003-11-6DP, diamine derivs., reaction products with maleic anhydride-grafted branched polyolefins 9004-73-3DP, Polymethylhydrosiloxane, reaction products with polyolefins 9010-79-1DP, Ethylene-propylene copolymer, reaction products with polymeric backbones **9011-13-6DP**, Maleic anhydride-styrene copolymer, reaction products with amine-terminated polyolefins 10025-78-2DP, Trichlorosilane, reaction products with polyolefins **25189-84-8DP**, Poly(acryloyl chloride), reaction products with polyolefins 26587-28-0P, Ethylene-propylene-1-octene copolymer 26603-40-7DP, reaction products with hydroxy-terminated polyolefins **26937-45-1DP**, Poly(methacryloyl chloride), reaction products with polyolefins 65605-36-9DP, reaction products with polyolefins 118550-50-8DP, Tolonate HDT, reaction products with polyolefins 181116-31-4P 202073-27-6P **202073-28-7P** 202073-29-8P 202073-30-1P 202073-31-2P 202073-32-3P **202073-33-4P** **202073-34-5P** 202073-35-6DP, 1,3,5-Benzenetriethanamine, reaction products with Me itaconate and polyolefins 211293-55-9P
 RL: **IMF (Industrial manufacture)**; MOA (Modifier or additive use); **PREP (Preparation)**; USES (Uses)
 (branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE

- (1) Anon; JP 217505 1983
- (2) Cozewith; US 5030659 1991 HCAPLUS
- (3) Kennedy; US 5395885 1995 HCAPLUS
- (4) Zhou; US 5276110 1994 HCAPLUS

IT **109-55-7DP**, reaction products with maleic anhydride-grafted branched polyolefins **9011-13-6DP**, Maleic anhydride-styrene copolymer, reaction products with amine-terminated polyolefins **25189-84-8DP**, Poly(acryloyl chloride), reaction products with polyolefins **26937-45-1DP**, Poly(methacryloyl chloride), reaction products with polyolefins **202073-28-7P 202073-33-4P 202073-34-5P**
 RL: **IMF (Industrial manufacture)**; MOA (Modifier or additive use); **PREP (Preparation)**; USES (Uses)
 (branched polyolefin polymers as additives in fuel and lubricating oil compns.)
 RN 109-55-7 HCAPLUS
 CN 1,3-Propanediamine, N,N-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

$\text{H}_2\text{N}-(\text{CH}_2)_3-\text{NMe}_2$

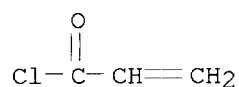
RN 9011-13-6 HCAPLUS
 CN 2,5-Furandione, polymer with ethenylbenzene (9CI) (CA INDEX NAME)
 CM 1
 CRN 108-31-6
 CMF C4 H2 O3



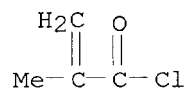
CM 2
 CRN 100-42-5
 CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

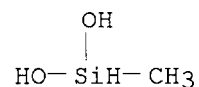
RN 25189-84-8 HCAPLUS
 CN 2-Propenoyl chloride, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 814-68-6
 CMF C3 H3 Cl O



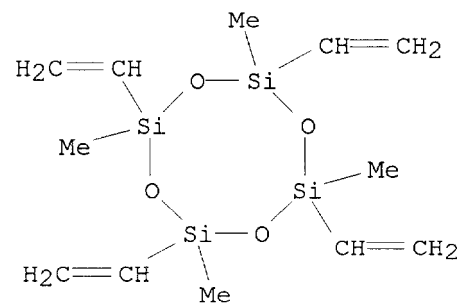
RN 26937-45-1 HCAPLUS
 CN 2-Propenoyl chloride, 2-methyl-, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 920-46-7
 CMF C4 H5 Cl O



RN 202073-28-7 HCAPLUS
 CN Silanediol, methyl-, polymer with ethene, 1-propene and 2,4,6,8-tetraethenyl-2,4,6,8-tetramethylcyclotetrasiloxane (9CI) (CA INDEX NAME)
 CM 1
 CRN 43641-90-3
 CMF C H6 O2 Si



CM 2
 CRN 2554-06-5
 CMF C12 H24 O4 Si4



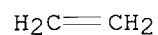
CM 3

CRN 115-07-1
CMF C3 H6



CM 4

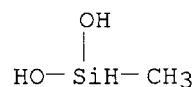
CRN 74-85-1
CMF C2 H4



RN 202073-33-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with
9-borabicyclo[3.3.1]nonane, ethene, methyl 2-methyl-2-propenoate,
2-methyl-2-propenoyl chloride, methylsilanediol and 1-propene (9CI) (CA
INDEX NAME)

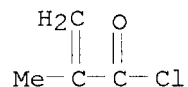
CM 1

CRN 43641-90-3
CMF C H6 O2 Si



CM 2

CRN 920-46-7
CMF C4 H5 Cl O



CM 3

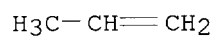
CRN 280-64-8
CMF C8 H15 B



CM 4

CRN 115-07-1

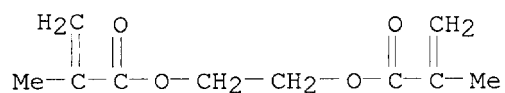
CMF C3 H6



CM 5

CRN 97-90-5

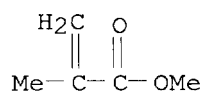
CMF C10 H14 O4



CM 6

CRN 80-62-6

CMF C5 H8 O2



CM 7

CRN 74-85-1

CMF C2 H4

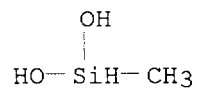


RN 202073-34-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with
9-borabicyclo[3.3.1]nonane, ethene, methyl 2-methyl-2-propenoate,
methylsilanediol and 1-propene (9CI) (CA INDEX NAME)

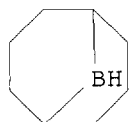
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CRN 43641-90-3
CMF C H6 O2 Si



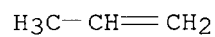
CM 2

CRN 280-64-8
CMF C8 H15 B



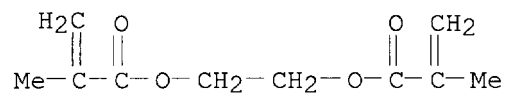
CM 3

CRN 115-07-1
CMF C3 H6



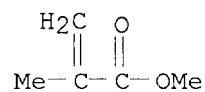
CM 4

CRN 97-90-5
CMF C10 H14 O4



CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 74-85-1

CMF C2 H4

 $\text{H}_2\text{C}=\text{CH}_2$

L46 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2003 ACS
 AN 1999:576956 HCAPLUS
 DN 131:186448
 TI **Aqueous dispersion** of an imidized maleic anhydride-
styrene polymer for paper sizes
 IN Van Den Berg, Hendrik Jan; Maassen, Mathijs Hubert Gertrudes;
 Steenbakkers, Laurentius Wilhelmus
 PA Dsm N.V., Neth.
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C08F008-32
 ICS D21H021-16
 CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
 Section cross-reference(s): 35

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9945039	A1	19990910	WO 1999-NL112	19990303
	W:	AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	NL 1008469	C2	19990907	NL 1998-1008469	19980304
	AU 9928606	A1	19990920	AU 1999-28606	19990303
	BR 9908462	A	20001114	BR 1999-8462	19990303
	EP 1060197	A1	20001220	EP 1999-909400	19990303
	R:	AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, PT, FI			
	JP 2002505351	T2	20020219	JP 2000-534580	19990303
	US 6407197	B1	20020618	US 2000-654502	20000901
PRAI	NL 1998-1008469	A	19980304		
	US 1998-101556P	P	19980922		
	WO 1999-NL112	W	19990303		
AB	The title polymer was obtained by imidization of polymer of 7-50 mol% maleic anhydride monomer units and vinyl arom. monomer units, carried out in that .ltoreq.75% of the maleic anhydride monomer units was imidized. Thus, 26:74 maleic anhydride- styrene copolymer having intrinsic viscosity (2 g/dL, THF, 25.degree.) 0.35 dL/g was treated with 25% NH3 soln. to imidization degree 59% with diln. with H2O to 20% solids. Paper sized with the above dispersion, addnl. contg. 10% starch, was formed into a sheet having low water absorption (DIN EN 205353) Cobb60 25 and acceptable printing (wicking) properties; vs. 41 and unacceptable printing for a dispersion of imidized (89%) polymer.				

ST paper sizing dispersion imidized polymer; maleic anhydride **styrene** copolymer imidization; water absorption sized paper; printability sized paper

IT Sizes (agents)
(**aq. dispersion** of imidized maleic anhydride-**styrene** polymer for paper sizes)

IT Paper
(**water** absorption and printability; **aq. dispersion** of imidized maleic anhydride-**styrene** polymer for paper sizes)

IT 7664-41-7DP, Ammonia, reaction products with maleic anhydride **styrene** copolymer, uses **9011-13-6DP**, Maleic anhydride **styrene** copolymer, **imidized** with ammonia
RL: **IMF (Industrial manufacture)**; TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(**aq. dispersion** of **imidized** maleic anhydride-**styrene** polymer for paper sizes)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Bayer AG; DE 3430802 A 1986 HCAPLUS
- (2) Ciba-Geigy AG; FR 2369380 A 1978 HCAPLUS
- (3) DSM NV; WO 9317050 A 1993 HCAPLUS
- (4) DSM NV; EP 0728767 A 1996 HCAPLUS
- (5) Denki Kagaku Kogyo KK; JP 60243102 A 1985 HCAPLUS
- (6) Institut Fur Technologie Der Polymere; DE 4112535 A 1992 HCAPLUS
- (7) Leuna-Werke GMBH; DE 4342157 A 1995 HCAPLUS
- (8) Veb Leuna-Werke Walter Ulbricht; DE 3819968 A 1989 HCAPLUS

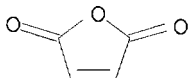
IT **9011-13-6DP**, Maleic anhydride **styrene** copolymer, **imidized** with ammonia
RL: **IMF (Industrial manufacture)**; TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(**aq. dispersion** of **imidized** maleic anhydride-**styrene** polymer for paper sizes)

RN 9011-13-6 HCAPLUS

CN 2,5-Furandione, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

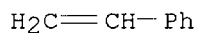
CM 1

CRN 108-31-6
CMF C4 H2 O3



CM 2

CRN 100-42-5
CMF C8 H8



L46 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 1999:458927 HCAPLUS

DN 131:88320

TI Stable **aqueous dispersions** based on **water**
-soluble polymers containing a cationic polymeric dispersant having
hydrophobic groups

IN Tembou, Nzudie Denis; Collette, Christian

PA Elf Atochem S. A., Fr.

SO Fr. Demande, 13 pp.

CODEN: FRXXBL

DT Patent

LA French

IC ICM C08F212-08

ICS C08F220-56; C08F002-22

ICI C08F212-08, C08F220-34; C08F220-56, C08F220-34, C08F220-18

CC 35-4 (Chemistry of Synthetic High Polymers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2770526	A1	19990507	FR 1997-13859	19971104
	FR 2770526	B1	20000114		
	EP 915103	A1	19990512	EP 1998-402667	19981027
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6225395	B1	20010501	US 1998-182651	19981030
	AU 9890528	A1	19990603	AU 1998-90528	19981102
	AU 719694	B2	20000518		
	NO 9805127	A	19990505	NO 1998-5127	19981103
	CN 1224727	A	19990804	CN 1998-125824	19981104
	JP 11217410	A2	19990810	JP 1998-313810	19981104
PRAI	FR 1997-13859	A	19971104		
AB	Low-viscosity, highly concd., stable aq. dispersion of water -sol. polymers are manufd. in the presence of polymeric dispersants contg. repeating units of .gtoreq.1 water-sol. monomer 15-99, repeating units of .gtoreq.1 water-insol. monomer 1-85, and repeating units of .gtoreq.1 amphiphilic monomer. A typical dispersant was manufd. by radical polymn. of 140 parts styrene with 175 parts 80% aq. soln. of acryloyloxyethyltrimethylammonium chloride in an EtOH-MEK mixt.				
ST	aq dispersion water soluble polymer manuf polymeric dispersant; styrene copolymer dispersant water soluble polymer; acryloyloxyethyltrimethylammonium copolymer dispersant water soluble polymer				
IT	Polymerization (dispersion ; stable aq. dispersions based on water -sol. polymers contg. a cationic polymeric dispersant having hydrophobic groups)				
IT	Quaternary ammonium compounds, preparation RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP (Preparation); USES (Uses) (polymers; stable aq. dispersions based on water -sol. polymers contg. a cationic polymeric dispersant having hydrophobic groups)				
IT	Dispersing agents (stable aq. dispersions based on water -sol. polymers contg. a cationic polymeric dispersant having hydrophobic groups)				
IT	121436-73-5P, Acryloyloxyethyltrimethylammonium				

chloride-**styrene** copolymer

RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP (Preparation); USES (Uses)

(dispersant; stable **aq. dispersions** based on **water**-sol. polymers contg. a cationic polymeric dispersant having hydrophobic groups)

IT **211106-71-7P**

RL: IMF (Industrial manufacture); PREP (Preparation)

(stable **aq. dispersions** based on **water**-sol. polymers contg. a cationic polymeric dispersant having hydrophobic groups)

IT **109-55-7DP**, imides with maleic anhydride-**styrene** copolymer, salts with acetic acid **9011-13-6DP**, Maleic anhydride-**styrene** copolymer, **imides** with dimethylaminopropylamine, salts with acetic acid

RL: **IMF (Industrial manufacture)**; NUU (Other use, unclassified);

PREP (Preparation); USES (Uses)

(stable **aq. dispersions** based on **water**-sol. polymers contg. a cationic polymeric dispersant having hydrophobic groups)

IT **121436-73-5P**, **Acryloyloxyethyltrimethylammonium** chloride-**styrene** copolymer

RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP (Preparation); USES (Uses)

(dispersant; stable **aq. dispersions** based on **water**-sol. polymers contg. a cationic polymeric dispersant having hydrophobic groups)

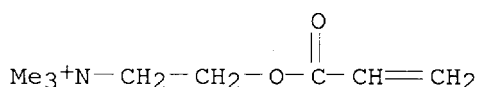
RN 121436-73-5 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 44992-01-0

CMF C8 H16 N O2 . Cl

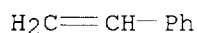


● Cl⁻

CM 2

CRN 100-42-5

CMF C8 H8



IT **211106-71-7P**

RL: IMF (Industrial manufacture); PREP (Preparation)

(stable **aq. dispersions** based on **water**
-sol. polymers contg. a cationic polymeric dispersant having
hydrophobic groups)

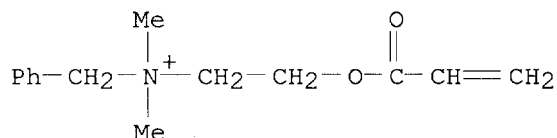
RN 211106-71-7 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl]-,
chloride, polymer with butyl 2-propenoate and 2-propenamide (9CI) (CA
INDEX NAME)

CM 1

CRN 46830-22-2

CMF C14 H20 N O2 . Cl

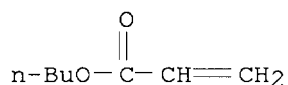


● Cl⁻

CM 2

CRN 141-32-2

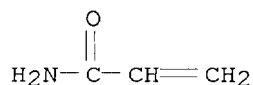
CMF C7 H12 O2



CM 3

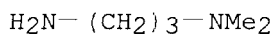
CRN 79-06-1

CMF C3 H5 N O



IT **109-55-7DP**, imides with maleic anhydride-**styrene**
copolymer, salts with acetic acid **9011-13-6DP**, Maleic anhydride-
styrene copolymer, **imides** with dimethylaminopropylamine,
salts with acetic acid
RL: **IMF (Industrial manufacture)**; NUU (Other use, unclassified);
PREP (Preparation); USES (Uses)
(stable **aq. dispersions** based on **water**
-sol. polymers contg. a cationic polymeric dispersant having
hydrophobic groups)

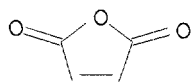
RN 109-55-7 HCAPLUS
 CN 1,3-Propanediamine, N,N-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 9011-13-6 HCAPLUS
 CN 2,5-Furandione, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

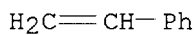
CM 1

CRN 108-31-6
 CMF C4 H2 O3



CM 2

CRN 100-42-5
 CMF C8 H8



L46 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 1998:192138 HCAPLUS

DN 128:245265

TI Antireflective film-forming **compositions** particularly useful for underlaying antireflective coatings with microlithographic photoresists for the absorption of near or deep UV radiation

IN Knors, Christopher John; Macy, Elwood Herbert; Moreau, Wayne Martin

PA International Business Machines Corp., USA

SO U.S., 8 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM C08F008-32

ICS C08F022-04

NCL 525327600

CC 42-10 (Coatings, Inks, and Related Products)

Section cross-reference(s): 41, 74

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5731385	A	19980324	US 1993-168885	19931216
	US 5654376	A	19970805	US 1995-466566	19950606
	US 5800963	A	19980901	US 1995-466561	19950606
	US 6051364	A	20000418	US 1998-57657	19980409
PRAI	US 1993-168885		19931216		
	US 1995-466561		19950606		

US 1995-466566 19950606

AB The title **comps.** comprise an imide reaction product of (a) at least one aminoarom. chromophore reactant having an optical absorbance coeff. of at least about 10/.mu.m, with (b) a polymer reactant, wherein the polymer reactant comprises an anhydride group, wherein the imide reaction product is immiscible with a photoresist **compn.** comprising a solvent selected from alkyl Cellosolves and acetate esters thereof, propylene glycol alkyl ethers and acetate esters thereof, monooxymonocarboxylic acid esters and ethers thereof, diglyme, and Et lactate, and wherein the imide reaction product is essentially insol. in aq. alk. photoresist developer. A maleic anhydride-vinyl Me ether copolymer imidized by C.I. **Disperse** Yellow 9 gave a 50 nm-thick film from a cyclohexanone soln., with optical absorption coeff. about 14/.mu.m.

ST antireflective coating polymeric dye photoresist

IT Antireflective films

Photoresists

(antireflective film-forming **comps.** particularly useful for underlaying antireflective coatings with microlithog. photoresists for the absorption of near or deep UV radiation)

IT Imides

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(antireflective film-forming **comps.** particularly useful for underlaying antireflective coatings with microlithog. photoresists for the absorption of near or deep UV radiation)

IT 119-26-6DP, 2,4-Dinitrophenylhydrazine, polymeric dyes 539-17-3DP, polymeric dyes 613-13-8DP, 2-Aminoanthracene, maleic anhydride copolymers imidized by 6373-73-5DP, C.I. **Disperse** Yellow 9, maleic anhydride copolymers imidized by 9011-13-6DP, Maleic anhydride-styrene copolymer, imidized by (dinitroanilino)aniline 9011-16-9DP, Maleic anhydride-methyl vinyl ether copolymer, imidized by (dinitroanilino)aniline 26471-56-7DP, Dinitroaniline, polymeric dyes 51649-83-3DP, polymeric dyes 76788-23-3DP, polymeric dyes 204850-10-2DP, polymeric dyes 204850-12-4DP, polymeric dyes
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(antireflective film-forming **comps.** particularly useful for underlaying antireflective coatings with microlithog. photoresists for the absorption of near or deep UV radiation)

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

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- (2) Anon; JP 63-122666 A2 1988 HCAPLUS
- (3) Anon; GB 2267095 1993 HCAPLUS
- (4) Anon; DE 4312243 A1 1993 HCAPLUS
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- (7) Brunner, T; Spie 1991, V1466, P297 HCAPLUS
- (8) Dichiaro; US 5401614 1995 HCAPLUS
- (9) Dichiaro; US 5482817 1996 HCAPLUS
- (10) Durham; US 4948697 1990 HCAPLUS
- (11) Fujikura; US 5328803 1994 HCAPLUS
- (12) Hertog; US 4828960 1989 HCAPLUS
- (13) Holmes; US 5362812 1994 HCAPLUS
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(17) Kalopissis; US 3763086 1973 HCAPLUS
(18) Knors; US 5294680 1994 HCAPLUS
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(30) Satomura; US 3945831 1976 HCAPLUS
(31) Sayigh; US 3854946 1974 HCAPLUS
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(33) Tanaka, T; J Electrochem Soc 1990, V137, P3900 HCAPLUS
(34) Unruh; US 2751373 1956 HCAPLUS
(35) Widmann, D; IEEE Trans Electron Devices 1975, VEd-22, P467
(36) Yajima; US 5043243 1991 HCAPLUS

IT **9011-13-6DP**, Maleic anhydride-styrene copolymer, **imidized**
by (dinitroanilino)aniline **9011-16-9DP**, Maleic anhydride-methyl
vinyl ether copolymer, imidized by (dinitroanilino)aniline.
RL: **IMF (Industrial manufacture)**; PRP (Properties); TEM
(Technical or engineered material use); **PREP (Preparation)**; USES
(Uses)

(antireflective film-forming **comps.** particularly useful for
underlaying antireflective coatings with microlithog. photoresists for
the absorption of near or deep UV radiation)

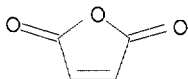
RN 9011-13-6 HCAPLUS

CN 2,5-Furandione, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 108-31-6

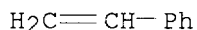
CMF C4 H2 O3



CM 2

CRN 100-42-5

CMF C8 H8



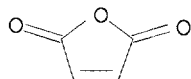
RN 9011-16-9 HCAPLUS

CN 2,5-Furandione, polymer with methoxyethene (9CI) (CA INDEX NAME)

CM 1

CRN 108-31-6

CMF C4 H2 O3



CM 2

CRN 107-25-5

CMF C3 H6 O



L46 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 1998:119117 HCAPLUS

DN 128:130179

TI Branched polyolefin polymers as additives in fuel and lubricating oil
compositions

IN Janssen, Koen J. G.; Bostoen, Claude L.

PA DSM Copolymer, Inc., USA

SO Eur. Pat. Appl., 46 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C10L001-16

ICS C10L001-18; C10L001-22; C10L001-28

CC 51-8 (Fossil Fuels, Derivatives, and Related Products)

Section cross-reference(s): 35

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 818525	A2	19980114	EP 1997-304774	19970701
	EP 818525	A3	19980204		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6127481	A	20001003	US 1996-683518	19960712
PRAI	US 1996-683518	A	19960712		
	US 1995-511402	A2	19950804		
AB	This invention relates to a branched polyolefin additive for use in fuel and/or lubricating oil in the form of a comb, star, nanogel and structural combinations thereof, in which a plurality of polyolefin arms are attached to a backbone having repeating units contg. aliph. groups, arom. groups, heteroatom-contg. groups and combinations thereof, to provide a branched polymeric additive in which the properties of the additive can be conveniently tailored to a single or multifunctional performance criteria of a fuel and/or lubricating oil compn.				
ST	branched polyolefin polymer additive fuel; lubricating oil branched polyolefin polymer additive				
IT	Fuel oil additives				

- (branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT Dendritic polymers
Polyolefins
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT Polysiloxanes, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT Gasoline additives
(deposit inhibitors; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT Lubricating oil additives
(**dispersants**; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT Polyvinyl acetals
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(formals, reaction products with polyolefins; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT Polymerization
(graft; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT Lubricating oil additives
(viscosity improvers; branched polyolefin polymers as additives in fuel and lubricating oil **compns.**)
- IT 101-54-2DP, N-Phenyl-p-phenylenediamine, reaction products with maleic anhydride-grafted branched polyolefins 108-31-6DP, 2,5-Furandione, reaction products with polyolefins and backbone polymers, uses **109-55-7DP**, reaction products with maleic anhydride-grafted branched polyolefins 112-57-2DP, reaction products with maleic anhydride-grafted branched polyolefins 280-64-8DP, 9-Borabicyclo[3.3.1]nonane, reaction products with polyolefins 537-65-5DP, 4,4'-Diaminodiphenylamine, reaction products with dendrimers and polyolefins 2038-03-1DP, 4-(2-Aminoethyl)morpholine, reaction products with maleic anhydride-grafted branched polyolefins 2094-99-7DP, reaction products with polyolefins, Me methacrylate and styrene 7338-27-4DP, Methyl itaconate, reaction products with tris(aminoethyl)benzene and hydroxy-terminated polyolefins 9002-88-4DP, Polyethylene, reaction products with polymeric backbones 9003-07-0DP, Polypropylene, reaction products with polymeric backbones 9003-11-6DP, diamine derivs., reaction products with maleic anhydride-grafted branched polyolefins 9004-73-3DP, Polymethylhydrosiloxane, reaction products with polyolefins 9010-79-1DP, Ethylene-propylene copolymer, reaction products with polymeric backbones **9011-13-6DP**, Maleic anhydride-styrene copolymer, reaction products with amine-terminated polyolefins 10025-78-2DP, Trichlorosilane, reaction products with polyolefins **25189-84-8DP**, Poly(acryloyl chloride), reaction products with polyolefins 26471-62-5DP, Tdi, isocyanurate derivs., reaction products with hydroxy-terminated polyolefins 26587-28-0P, Ethylene-propylene-1-octene copolymer **26937-45-1DP**, Poly(methacryloyl chloride), reaction products with polyolefins 118550-50-8DP, Tolonate HDT, reaction products with polyolefins 181116-31-4P 202073-27-6P **202073-28-7P** 202073-29-8P 202073-30-1P 202073-31-2P 202073-32-3P **202073-33-4P 202073-34-5P** 202073-35-6DP,

1,3,5-Benzenetriethanamine, reaction products with Me itaconate and polyolefins

RL: **IMF (Industrial manufacture)**; MOA (Modifier or additive use); **PREP (Preparation)**; USES (Uses)

(branched polyolefin polymers as additives in fuel and lubricating oil compns.)

IT **109-55-7DP**, reaction products with maleic anhydride-grafted branched polyolefins **9011-13-6DP**, Maleic anhydride-styrene copolymer, reaction products with amine-terminated polyolefins **25189-84-8DP**, Poly(acryloyl chloride), reaction products with polyolefins **26937-45-1DP**, Poly(methacryloyl chloride), reaction products with polyolefins **202073-28-7P 202073-33-4P 202073-34-5P**

RL: **IMF (Industrial manufacture)**; MOA (Modifier or additive use); **PREP (Preparation)**; USES (Uses)

(branched polyolefin polymers as additives in fuel and lubricating oil compns.)

RN 109-55-7 HCAPLUS

CN 1,3-Propanediamine, N,N-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

$\text{H}_2\text{N}-(\text{CH}_2)_3-\text{NMe}_2$

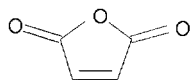
RN 9011-13-6 HCAPLUS

CN 2,5-Furandione, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 108-31-6

CMF C4 H2 O3



CM 2

CRN 100-42-5

CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

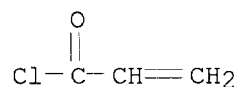
RN 25189-84-8 HCAPLUS

CN 2-Propenoyl chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 814-68-6

CMF C3 H3 Cl O



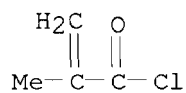
RN 26937-45-1 HCAPLUS

CN 2-Propenoyl chloride, 2-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 920-46-7

CMF C4 H5 Cl O



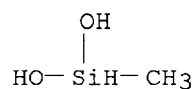
RN 202073-28-7 HCAPLUS

CN Silanediol, methyl-, polymer with ethene, 1-propene and 2,4,6,8-tetraethenyl-2,4,6,8-tetramethylcyclotetrasiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 43641-90-3

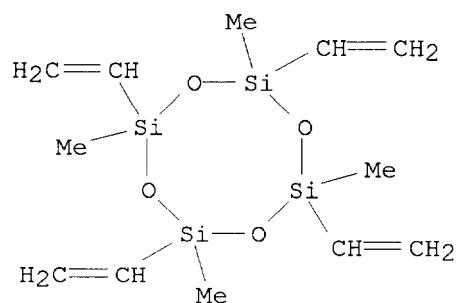
CMF C H6 O2 Si



CM 2

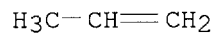
CRN 2554-06-5

CMF C12 H24 O4 Si4



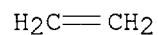
CM 3

CRN 115-07-1
CMF C3 H6



CM 4

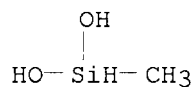
CRN 74-85-1
CMF C2 H4



RN 202073-33-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with
9-borabicyclo[3.3.1]nonane, ethene, methyl 2-methyl-2-propenoate,
2-methyl-2-propenoyl chloride, methylsilanediol and 1-propene (9CI) (CA
INDEX NAME)

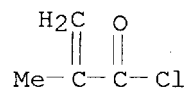
CM 1

CRN 43641-90-3
CMF C H6 O2 Si



CM 2

CRN 920-46-7
CMF C4 H5 Cl O



CM 3

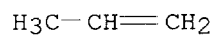
CRN 280-64-8
CMF C8 H15 B



CM 4

CRN 115-07-1

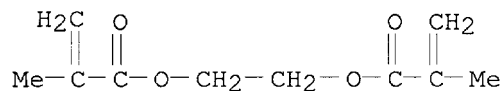
CMF C3 H6



CM 5

CRN 97-90-5

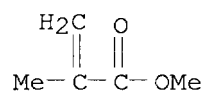
CMF C10 H14 O4



CM 6

CRN 80-62-6

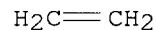
CMF C5 H8 O2



CM 7

CRN 74-85-1

CMF C2 H4

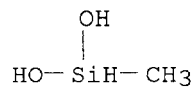


RN 202073-34-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with
9-borabicyclo[3.3.1]nonane, ethene, methyl 2-methyl-2-propenoate,
methylsilanediol and 1-propene (9CI) (CA INDEX NAME)

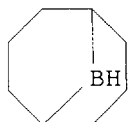
CM 1

CRN 43641-90-3
CMF C H6 O2 Si



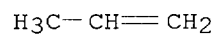
CM 2

CRN 280-64-8
CMF C8 H15 B



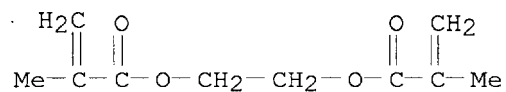
CM 3

CRN 115-07-1
CMF C3 H6



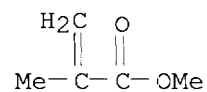
CM 4

CRN 97-90-5
CMF C10 H14 O4



CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 74-85-1

CMF C2 H4

 $\text{H}_2\text{C}=\text{CH}_2$

L46 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 1997:211034 HCAPLUS

DN 126:200231

TI Uniform antistatic thermoplastic resin **compositions**

IN Tsubaki, Takayuki; Nakayama, Yutaka; Sumi, Hideyuki; Hotta, Hiroshi

PA Dai-Ichi Kogyo Seiyaku Co., Ltd., Japan

SO Eur. Pat. Appl., 33 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C08L101-00

ICS C08L025-06

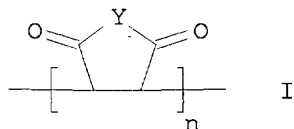
ICI C08L101-00, C08L023-08, C08L101-00; C08L025-06, C08L023-08, C08L101-00

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 755983	A2	19970129	EP 1996-305452	19960725
	EP 755983	A3	19980429		
	EP 755983	B1	20020710		
	R: DE, FR, GB, IT				
	JP 09272805	A2	19971021	JP 1996-161572	19960621
	TW 420707	B	20010201	TW 1996-85108034	19960703
	US 5654369	A	19970805	US 1996-681023	19960722
PRAI	JP 1995-189137	A	19950725		
	JP 1996-19994	A	19960206		
	JP 1996-161572	A	19960621		
GI					



AB Thermoplastic resin **compns.** uniformly and permanently rendered antistatic comprise (A) 100 parts thermoplastic resin, (B) 3-30 parts cationic copolymer (wt.-av. mol. wt. 1000-50,000) comprising 80-98% mol% of an ethylene unit and 2-20 mol% of a cationic unit, and (C) 0.1-10 parts copolymer (wt.-av. mol. wt. 800-200,000) comprising .gtoreq.1 unit each per mol. of a structural unit ($\text{CH}_2\text{C}(\text{R}_7)(\text{R}_8)$) and a structural unit of I wherein $\text{R}_7 = \text{H}$ or Me , $\text{R}_8 = \text{H}$, $\text{C}_1\text{-42 alkyl}$, Ph , or CO_2R_9 , $\text{R}_9 = \text{C}_1\text{-4 alkyl}$, $\text{Y} = \text{O}$ or NR_{10} , and $\text{R}_{10} = \text{alkyl}$, aryl , aralkyl , or a quaternary

ammonium-contg. group. Since polymer (B) exists in a continual layer near the surface of the matrix resin, the built-in antistatic properties are hardly decreased by abrasion and washing of the surface. Also, since the antistatic component (B) is precluded from bleeding out, the resin surface does not become tacky or deteriorate in printability. Incorporation of polymer (C) results in a uniform fine **dispersion** of the **cationic** polymer (B) in the matrix so that a uniform distribution of antistatic properties is obtained. Polymer (C) provides the addnl. advantage that the amt. of antistatic component (B) can be reduced to attain a given antistatic performance.

- ST uniform antistatic thermoplastic **compn**; cationic polymer antistatic thermoplastic **compn**; maleimide contg polymer antistatic thermoplastic; maleic anhydride polymer antistatic thermoplastic
- IT Polyesters, properties
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(ABS blends and; thermoplastic **compns**. rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT Polyamides, properties
Polycarbonates, properties
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(ABS blends; thermoplastic **compns**. rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT Polyelectrolytes
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(cationic; thermoplastic **compns**. rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT Antistatic agents
(thermoplastic **compns**. rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT Linear low density polyethylenes
Polyamides, properties
Polymer blends
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(thermoplastic **compns**. rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT Alkenes, preparation
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(.alpha.-, maleic anhydride polymers, imide derivs.; thermoplastic **compns**. rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT **26062-94-2**, Poly(butylene terephthalate)
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(ABS blends; thermoplastic **compns**. rendered uniformly and

- permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT **24968-12-5**, Poly(butylene terephthalate)
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (Toray PBT 1401 and ABS blends; thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT 9002-88-4, Polyethylene
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (high- and low-d.; thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT 100-42-5D, **Styrene**, polymers
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (impact-resistant; thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT 74-85-1D, Ethene, polymers with .alpha.-olefins, properties
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (linear low-d.; thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)
- IT 62-53-3DP, Aniline, reaction products with maleate-contg. polymers
 64-67-5DP, Diethyl sulfate, reaction products with tertiary amine-contg. polymers 66-27-3DP, Methyl methanesulfonate, reaction products with tertiary amine-contg. polymers 74-88-4DP, Methyl iodide, reaction products with tertiary amine-contg. polymers 100-46-9DP, Benzylamine, reaction products with maleate-contg. polymers 108-00-9DP, reaction products with carboxy or anhydride-contg. polymers, quaternized 108-31-6DP, 2,5-Furandione, reaction products with polypropylene, imide derivs., preparation 108-91-8DP, Cyclohexylamine, reaction products with maleate-contg. polymers **109-55-7DP**, reaction products with carboxy or anhydride-contg. polymers, quaternized 124-22-1DP, Laurylamine, reaction products with maleate-contg. polymers 124-30-1DP, Stearyl amine, reaction products with maleate-contg. polymers 9003-07-0DP, Polypropylene, maleated, imide derivs. **9010-77-9DP**, **Acrylic** acid-ethylene copolymer, dimethylaminoalkyl amides, quaternized **9011-13-6DP**, SMA 3000, ammonioalkyl **imide** derivs. and **imide** derivs. 10076-31-0DP, reaction products with maleate-contg. polymers **25134-48-9DP**, **Acrylic** acid-ethyl **acrylate**-ethylene copolymer, dimethylaminoalkyl amides, quaternized 127670-10-4DP, Dia Carna PA 168, imide derivs. **187682-77-5P**
 RL: **IMF (Industrial manufacture)**; POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
 (thermoplastic **compns.** rendered uniformly and permanently antistatic contg.)
- IT 9003-07-0, Polypropylene **9003-56-9**, ABS **9011-14-7**, Acrypet MD 32131-17-2, Leona 1300S, properties 179865-23-7, Macsllloy AK 101 187852-92-2, Macsllloy BK 102 187853-03-8, Polyethy LL-UF 440 187853-08-3, Techniace T 210
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)

IT **26062-94-2**, Poly(butylene terephthalate)

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(ABS blends; thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)

RN 26062-94-2 HCAPLUS

CN 1,4-Benzenedicarboxylic acid, polymer with 1,4-butanediol (9CI) (CA INDEX NAME)

CM 1

CRN 110-63-4

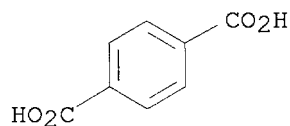
CMF C4 H10 O2

HO-(CH₂)₄-OH

CM 2

CRN 100-21-0

CMF C8 H6 O4



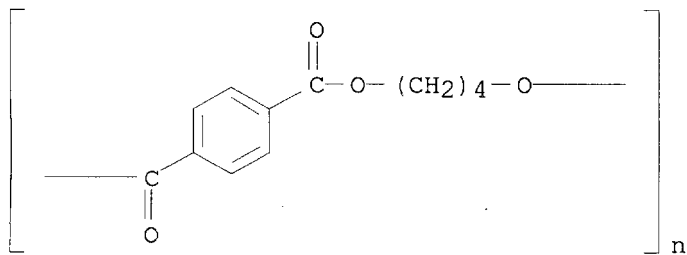
IT **24968-12-5**, Poly(butylene terephthalate)

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(Toray PBT 1401 and ABS blends; thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)

RN 24968-12-5 HCAPLUS

CN Poly(oxy-1,4-butanediylloxycarbonyl-1,4-phenylenecarbonyl) (9CI) (CA INDEX NAME)



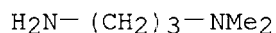
IT **109-55-7DP**, reaction products with carboxy or anhydride-contg.

polymers, quaternized 9010-77-9DP, Acrylic acid-ethylene copolymer, dimethylaminoalkyl amides, quaternized 9011-13-6DP, SMA 3000, ammonioalkyl imide derivs. and imide derivs. 25134-48-9DP, Acrylic acid-ethyl acrylate-ethylene copolymer, dimethylaminoalkyl amides, quaternized 187682-77-5P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(thermoplastic compns. rendered uniformly and permanently antistatic contg.)

RN 109-55-7 HCAPLUS

CN 1,3-Propanediamine, N,N-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



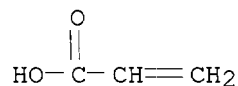
RN 9010-77-9 HCAPLUS

CN 2-Propenoic acid, polymer with ethene (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7

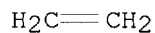
CMF C3 H4 O2



CM 2

CRN 74-85-1

CMF C2 H4



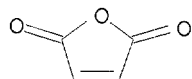
RN 9011-13-6 HCAPLUS

CN 2,5-Furandione, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

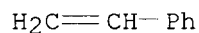
CRN 108-31-6

CMF C4 H2 O3



CM 2

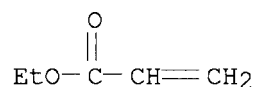
CRN 100-42-5
CMF C8 H8



RN 25134-48-9 HCAPLUS
CN 2-Propenoic acid, polymer with ethene and ethyl 2-propenoate (9CI) (CA INDEX NAME)

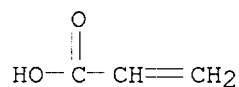
CM 1

CRN 140-88-5
CMF C5 H8 O2



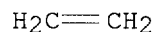
CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

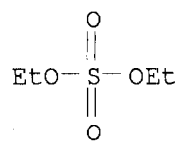
CRN 74-85-1
CMF C2 H4



RN 187682-77-5 HCAPLUS
CN 2-Propenoic acid, polymer with ethene and ethyl 2-propenoate, 2-(dimethylamino)ethyl ester, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5
CMF C4 H10 O4 S



CM 2

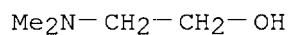
CRN 187682-76-4

CMF (C5 H8 O2 . C3 H4 O2 . C2 H4)x . x C4 H11 N O

CM 3

CRN 108-01-0

CMF C4 H11 N O



CM 4

CRN 25134-48-9

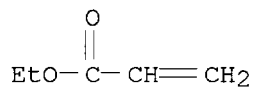
CMF (C5 H8 O2 . C3 H4 O2 . C2 H4)x

CCI PMS

CM 5

CRN 140-88-5

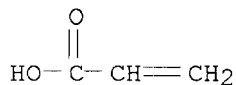
CMF C5 H8 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2



CM 7

CRN 74-85-1

CMF C2 H4



IT 9003-56-9, ABS 9011-14-7, Acrypet MD
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (thermoplastic **compns.** rendered uniformly and permanently antistatic contg. cationic polymers and maleic anhydride- and/or maleimide-contg. polymers)

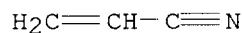
RN 9003-56-9 HCAPLUS

CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

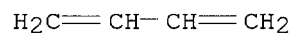
CMF C3 H3 N



CM 2

CRN 106-99-0

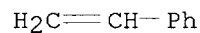
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8



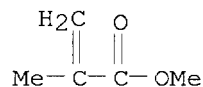
RN 9011-14-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 80-62-6

CMF C5 H8 O2



L46 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 1995:543507 HCAPLUS

DN 122:268273

TI Aqueous resin **compositions**

IN Harui, Nobuo; Rainaa, Buruno Furingusu; Geruwarudo, Efu Guraae

PA Dainippon Ink & Chemicals, Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08L035-00

ICS C08F222-38; C08L101-02; C09D135-00; C09D201-02

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06306251	A2	19941101	JP 1994-25312	19940223
PRAI	JP 1993-36567		19930225		

AB Vinyl polymers having main chains contg. amide carboxylic acid structures are neutralized with basic substances and **dispersed** in **water** to prep. the title **compos.** Thus, 300:300:100:200:100 trimethylsilyloxyethyl methacrylate-2-ethylhexyl methacrylate-lauryl methacrylate-styrene-maleic anhydride copolymer was prepd., treated with taurine, **dispersed** in **aq.** Et₃N, mixed with Cymel 303 and Denacol 612, coated on glass, and cured to form a coating.

ST vinyl polymer amic acid coating

IT Coating materials
(aq. coating materials contg. melamine and epoxy resins and vinyl polymers contg. amic acid groups)

IT Polymerization
(of vinyl compds.; aq. coating materials contg. melamine and epoxy resins and vinyl polymers contg. amic acid groups)

IT Carboxylic acids, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(amic, aq. coating materials contg. melamine and epoxy resins and vinyl polymers contg. amic acid groups)

IT Vinyl compounds, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polymers, aq. coating materials contg. melamine and epoxy resins and vinyl polymers contg. amic acid groups)

IT 71-36-3DP, Butanol, reaction products with dimethylaminopropylamine and anhydride group-contg. vinyl polymers 107-35-7DP, Taurine, reaction products with anhydride group-contg. vinyl polymers **109-55-7DP**, 3-Dimethylaminopropylamine, reaction products with butanol and anhydride group-contg. vinyl polymers **162958-41-ODP**, reaction products with taurine **162958-42-1DP**, reaction products with taurine **162958-43-2DP**, reaction products with butanol and dimethylaminopropylamine **162958-44-3DP**, reaction products with taurine
RL: **IMF (Industrial manufacture)**; TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(aq. coating materials)

IT 9003-08-1, Cymel 303 71228-86-9, Denacol EX 612

RL: TEM (Technical or engineered material use); USES (Uses)
 (aq. coating materials contg. melamine and epoxy resins and vinyl
 polymers contg. amic acid groups)

IT 109-55-7DP, 3-Dimethylaminopropylamine, reaction products with
 butanol and anhydride group-contg. vinyl polymers 162958-41-ODP,
 reaction products with taurine 162958-42-1DP, reaction products
 with taurine 162958-43-2DP, reaction products with butanol and
 dimethylaminopropylamine 162958-44-3DP, reaction products with
 taurine

RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (aq. coating materials)

RN 109-55-7 HCAPLUS

CN 1,3-Propanediamine, N,N-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

$\text{H}_2\text{N}-(\text{CH}_2)_3-\text{NMe}_2$

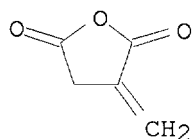
RN 162958-41-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
 dihydro-3-methylene-2,5-furandione, ethenylbenzene, 2-ethylhexyl
 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA
 INDEX NAME)

CM 1

CRN 2170-03-8

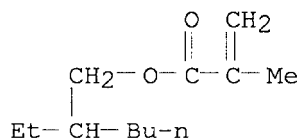
CMF C5 H4 O3



CM 2

CRN 688-84-6

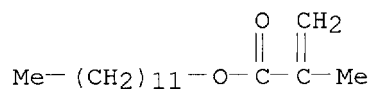
CMF C12 H22 O2



CM 3

CRN 142-90-5

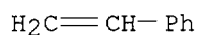
CMF C16 H30 O2



CM 4

CRN 100-42-5

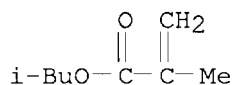
CMF C8 H8



CM 5

CRN 97-86-9

CMF C8 H14 O2



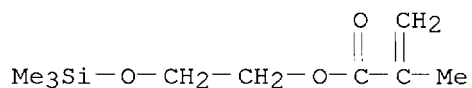
RN 162958-42-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with ethenylbenzene,
 2-ethylhexyl 2-methyl-2-propenoate, 2,5-furandione and
 2-[(trimethylsilyl)oxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 17407-09-9

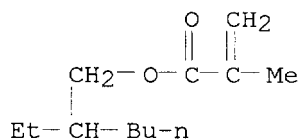
CMF C9 H18 O3 Si



CM 2

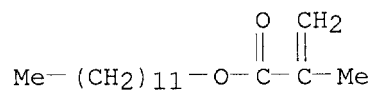
CRN 688-84-6

CMF C12 H22 O2



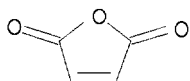
CM 3

CRN 142-90-5
CMF C16 H30 O2



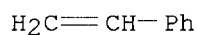
CM 4

CRN 108-31-6
CMF C4 H2 O3



CM 5

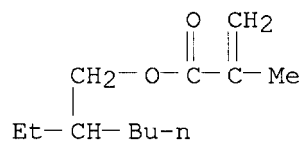
CRN 100-42-5
CMF C8 H8



RN 162958-43-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with ethenylbenzene,
2-ethylhexyl 2-methyl-2-propenoate, 2,5-furandione, 2-methylpropyl
2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

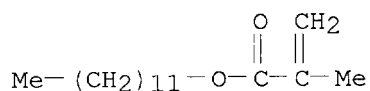
CM 1

CRN 688-84-6
CMF C12 H22 O2



CM 2

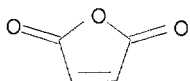
CRN 142-90-5
CMF C16 H30 O2



CM 3

CRN 108-31-6

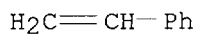
CMF C4 H2 O3



CM 4

CRN 100-42-5

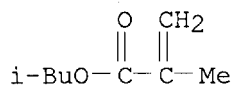
CMF C8 H8



CM 5

CRN 97-86-9

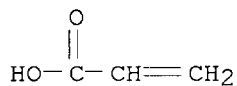
CMF C8 H14 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2

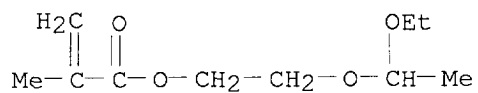


RN 162958-44-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with ethenylbenzene,
 2-(1-ethoxyethoxy)ethyl 2-methyl-2-propenoate, 2-ethylhexyl
 2-methyl-2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

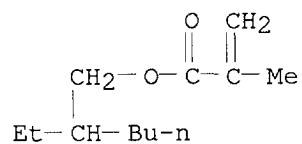
CM 1

CRN 28292-92-4
CMF C10 H18 O4



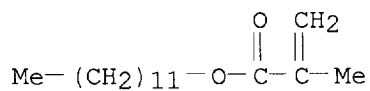
CM 2

CRN 688-84-6
CMF C12 H22 O2



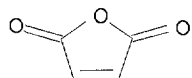
CM 3

CRN 142-90-5
CMF C16 H30 O2



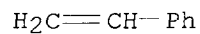
CM 4

CRN 108-31-6
CMF C4 H2 O3



CM 5

CRN 100-42-5
CMF C8 H8



L46 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 1995:175987 HCAPLUS

DN 122:216763

TI Resin **compositions** for in-mold coating of thermosetting resins

IN Morishita, Natsuki

PA Sekisui Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F299-02

ICS C08F002-44; C08L033-00

ICA B29C043-20

ICI B29K101-10, B29K105-06

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06220145	A2	19940809	JP 1993-13275	19930129
PRAI	JP 1993-13275		19930129		

AB The **compsn.**, used for coating of thermosetting resins by applying on semicured thermosetting resins in a mold, comprise polyamines or unsatd. amines, carboxy-contg. resins, and coloring pigments and are thickened to the viscosity being 150-550 P at 25.degree.. The **compsn.** comprising (A) polyamines or unsatd. amines, polycarboxylic acids, and coloring pigments, (B) polyamines, unsatd. carboxylic acids, and coloring pigments, or (C) alk. earth metal or Zn oxides or hydroxides, carboxy-contg. resins, and coloring pigments are also claimed. Thus, a sheet molding compd. comprising unsatd. polyester 70, polystyrene-styrene soln. 30, NS 100 120, Kayabutyl B 1, Kyowamag 150 1, Zn stearate 3, and ER 4630LBD 166W (glass roving) 60 parts was charged in a heating mold, pressed for 100 s, coated with a **compn.** (viscosity 250 P) contg. a styrene soln. of 6:4:10 (mol) isophthalic acid-maleic anhydride-propylene glycol copolymer 99, hexamethylenediamine 1, Ti-Pure 900 40, Yellow 9121 (Titan Yellow) 10, NS 100 50, and Kayabutyl B 1 part, and further pressed for 120 s to give a coated product showing good appearance and color evenness.

ST unsatd polyester polyamide coating SMC; pigment **dispersibility** polyamide coating SMC

IT Polyamides, uses

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(epoxy, unsatd., coatings; acid- and amine-contg. resin **compsn.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)

IT Coating materials

(in-mold, acid- and amine-contg. resin **compsn.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)

IT Epoxy resins, uses

Urethane polymers, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

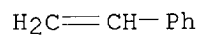
(methacrylates, coatings, contg. polyamides; acid- and amine-contg. resin **compsn.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)

IT Epoxy resins, uses

- Polyesters, uses
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyamide-, unsatd., coatings; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- IT Polyamides, uses
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyester-, unsatd., coatings; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- IT Polyesters, processes
 RL: PEP (Physical, engineering or chemical process); PROC (Process)
 (unsatd., in-mold coating of; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- IT **81871-88-7P**, Bisphenol A-epichlorohydrin copolymer methacrylate-styrene copolymer **104269-37-6P**
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (blends with polyamides, coatings; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- IT 32131-17-2P, uses **65553-73-3P 67510-70-7P**, Methacrylic acid-methyl methacrylate copolymer calcium salt **161538-99-4P 161566-93-4P 161589-16-8P**
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (blends with thermosetting resins, coatings; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- IT **161538-95-0P 161538-96-1P 161538-97-2P 161538-98-3P 161539-00-0P 161539-01-1P 161539-03-3P 161539-04-4P 161539-05-5P 161589-17-9P 161589-19-1P 161843-98-7P 161843-99-8P 161897-81-0P 161929-47-1P 162023-53-2P 162157-77-9P**
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (coatings; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- IT 100-42-5D, polymers with unsatd. polyesters
 RL: PEP (Physical, engineering or chemical process); PROC (Process)
 (in-mold coating of; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- IT **81871-88-7P**, Bisphenol A-epichlorohydrin copolymer methacrylate-styrene copolymer **104269-37-6P**
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (blends with polyamides, coatings; acid- and amine-contg. resin **comps.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
- RN 81871-88-7 HCAPLUS
- CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, 2-methyl-2-propenoate, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5
CMF C8 H8

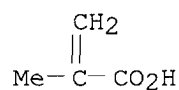


CM 2

CRN 61970-25-0
CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 3

CRN 79-41-4
CMF C4 H6 O2

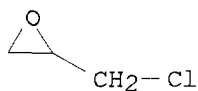


CM 4

CRN 25068-38-6
CMF (C15 H16 O2 . C3 H5 Cl O)x
CCI PMS

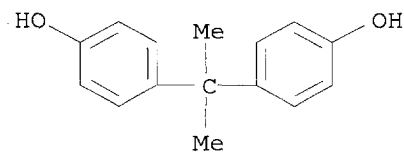
CM 5

CRN 106-89-8
CMF C3 H5 Cl O



CM 6

CRN 80-05-7
CMF C15 H16 O2



RN 104269-37-6 HCAPLUS

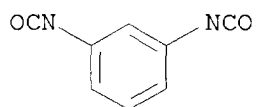
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
1,3-diisocyanatomethylbenzene, ethenylbenzene and .alpha.-hydro-.omega.-
hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



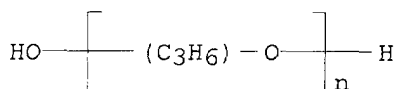
D1-Me

CM 2

CRN 25322-69-4

CMF (C3 H6 O)n H2 O

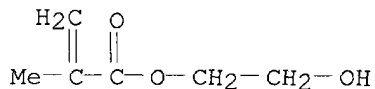
CCI IDS, PMS



CM 3

CRN 868-77-9

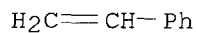
CMF C6 H10 O3



CM 4

CRN 100-42-5

CMF C8 H8



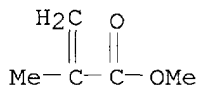
IT **65553-73-3P 67510-70-7P**, Methacrylic acid-methyl methacrylate copolymer calcium salt **161538-99-4P 161589-16-8P**
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (blends with thermosetting resins, coatings; acid- and amine-contg. resin **compns.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)
 RN 65553-73-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate, magnesium salt (9CI) (CA INDEX NAME)

CM 1

CRN 25086-15-1
 CMF (C5 H8 O2 . C4 H6 O2)x
 CCI PMS

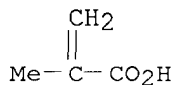
CM 2

CRN 80-62-6
 CMF C5 H8 O2



CM 3

CRN 79-41-4
 CMF C4 H6 O2



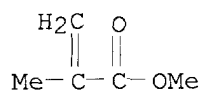
RN 67510-70-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate, calcium salt (9CI) (CA INDEX NAME)

CM 1

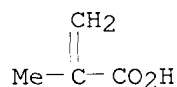
CRN 25086-15-1
 CMF (C5 H8 O2 . C4 H6 O2)x
 CCI PMS

CM 2

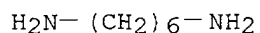
CRN 80-62-6
 CMF C5 H8 O2



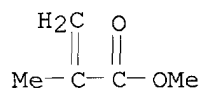
CM 3

CRN 79-41-4
CMF C4 H6 O2RN 161538-99-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,6-hexanediamine and methyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

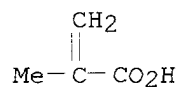
CM 1

CRN 124-09-4
CMF C6 H16 N2

CM 2

CRN 80-62-6
CMF C5 H8 O2

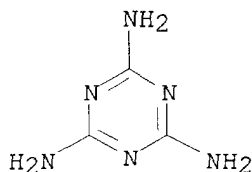
CM 3

CRN 79-41-4
CMF C4 H6 O2RN 161589-16-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate and
1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

CM 1

CRN 108-78-1

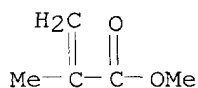
CMF C3 H6 N6



CM 2

CRN 80-62-6

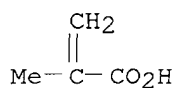
CMF C5 H8 O2



CM 3

CRN 79-41-4

CMF C4 H6 O2



IT 161538-95-0P 161538-96-1P 161538-97-2P
 161538-98-3P 161539-00-0P 161539-01-1P
 161539-03-3P 161539-04-4P 161539-05-5P
 161589-19-1P 161843-98-7P 161843-99-8P
 161897-81-0P 161929-47-1P 162023-53-2P
 162157-77-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(coatings; acid- and amine-contg. resin **compns.** with good pigment **dispersibility** for in-mold coating of thermosetting resins)

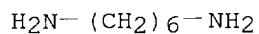
RN 161538-95-0 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with ethenylbenzene, 2,5-furandione, 1,6-hexanediamine and 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

CRN 124-09-4

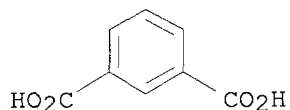
CMF C6 H16 N2



CM 2

CRN 121-91-5

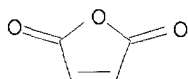
CMF C8 H6 O4



CM 3

CRN 108-31-6

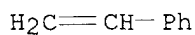
CMF C4 H2 O3



CM 4

CRN 100-42-5

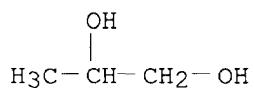
CMF C8 H8



CM 5

CRN 57-55-6

CMF C3 H8 O2

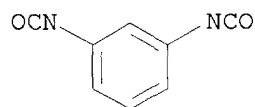


RN 161538-96-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,3-diisocyanatomethylbenzene, ethenylbenzene, 1,6-hexanediamine, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

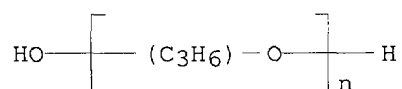
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1-Me

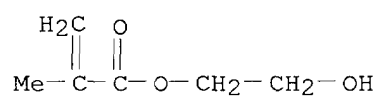
CM 2

CRN 25322-69-4
CMF (C3 H6 O)_n H2 O
CCI IDS, PMS



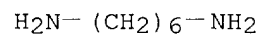
CM 3

CRN 868-77-9
CMF C6 H10 O3



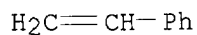
CM 4

CRN 124-09-4
CMF C6 H16 N2



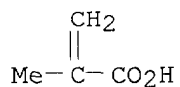
CM 5

CRN 100-42-5
CMF C8 H8



CM 6

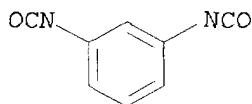
CRN 79-41-4
CMF C4 H6 O2



RN 161538-97-2 HCAPLUS
CN Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene, ethenylbenzene, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], 2-hydroxyethyl 2-methyl-2-propenoate and 2-methyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

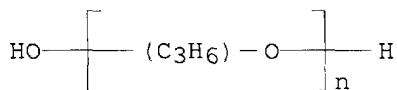
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1-Me

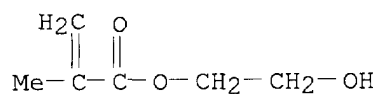
CM 2

CRN 25322-69-4
CMF (C3 H6 O)_n H2 O
CCI IDS, PMS



CM 3

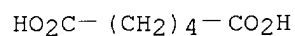
CRN 868-77-9
CMF C6 H10 O3



CM 4

CRN 124-04-9

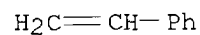
CMF C6 H10 O4



CM 5

CRN 100-42-5

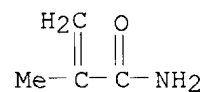
CMF C8 H8



CM 6

CRN 79-39-0

CMF C4 H7 N O



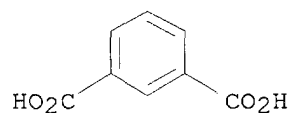
RN 161538-98-3 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with ethenylbenzene, 2,5-furandione, 2-methyl-2-propenamide and 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

CRN 121-91-5

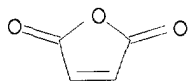
CMF C8 H6 O4



CM 2

CRN 108-31-6

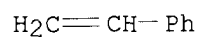
CMF C4 H2 O3



CM 3

CRN 100-42-5

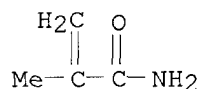
CMF C8 H8



CM 4

CRN 79-39-0

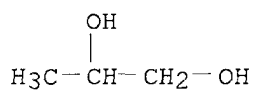
CMF C4 H7 N O



CM 5

CRN 57-55-6

CMF C3 H8 O2



RN 161539-00-0 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with ethenylbenzene, 2,5-furandione and 1,2-propanediol, magnesium salt (9CI) (CA INDEX NAME)

CM 1

CRN 32626-12-3

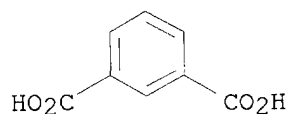
CMF (C8 H8 . C8 H6 O4 . C4 H2 O3 . C3 H8 O2)x

CCI PMS

CM 2

CRN 121-91-5

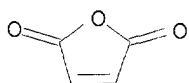
CMF C8 H6 O4



CM 3

CRN 108-31-6

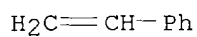
CMF C4 H2 O3



CM 4

CRN 100-42-5

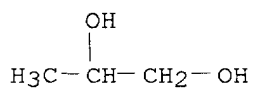
CMF C8 H8



CM 5

CRN 57-55-6

CMF C3 H8 O2



RN 161539-01-1 HCAPLUS

CN 2,5-Furandione, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, and ethenylbenzene, calcium salt (9CI) (CA INDEX NAME)

CM 1

CRN 125984-77-2

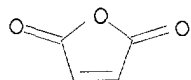
CMF ((C15 H16 O2 . C3 H5 Cl O)x . C8 H8 . x C4 H6 O2 . C4 H2 O3)x

CCI PMS

CM 2

CRN 108-31-6

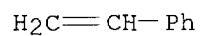
CMF C4 H2 O3



CM 3

CRN 100-42-5

CMF C8 H8



CM 4

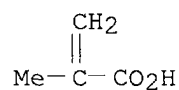
CRN 61970-25-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 5

CRN 79-41-4

CMF C4 H6 O2



CM 6

CRN 25068-38-6

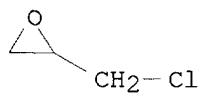
CMF (C15 H16 O2 . C3 H5 Cl O)x

CCI PMS

CM 7

CRN 106-89-8

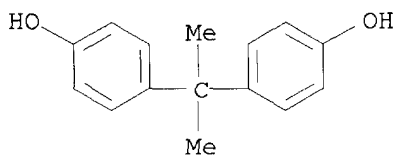
CMF C3 H5 Cl O



CM 8

CRN 80-05-7

CMF C15 H16 O2



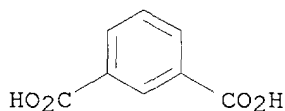
RN 161539-03-3 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, ethenylbenzene, 2,5-furandione and 1,2-propanediol, zinc salt (9CI) (CA INDEX NAME)

CM 1

CRN 161539-02-2
 CMF ((C15 H16 O2 . C3 H5 Cl O)x . C8 H8 . C8 H6 O4 . x C4 H6 O2 . C4 H2 O3 . C3 H8 O2)x
 CCI PMS

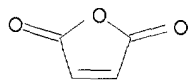
CM 2

CRN 121-91-5
 CMF C8 H6 O4



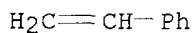
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

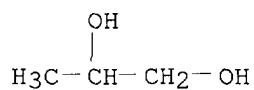
CRN 100-42-5
 CMF C8 H8



CM 5

CRN 57-55-6

CMF C3 H8 O2



CM 6

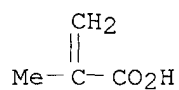
CRN 61970-25-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 7

CRN 79-41-4

CMF C4 H6 O2



CM 8

CRN 25068-38-6

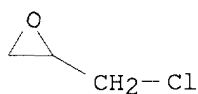
CMF (C15 H16 O2 . C3 H5 Cl O)x

CCI PMS

CM 9

CRN 106-89-8

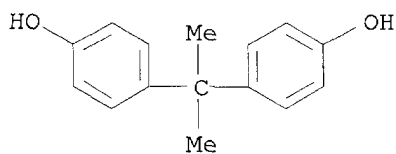
CMF C3 H5 Cl O



CM 10

CRN 80-05-7

CMF C15 H16 O2

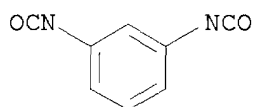


RN 161539-04-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, 1,3-diisocyanatomethylbenzene, ethenylbenzene, 2,5-furandione, 1,6-hexanediamine and .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

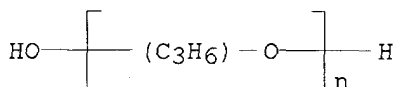
CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS



D1-Me

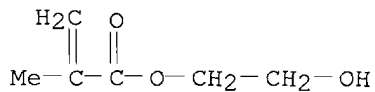
CM 2

CRN 25322-69-4
CMF (C3 H6 O)_n H2 O
CCI IDS, PMS



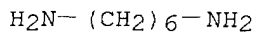
CM 3

CRN 868-77-9
CMF C6 H10 O3



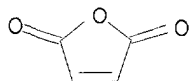
CM 4

CRN 124-09-4
CMF C6 H16 N2



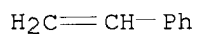
CM 5

CRN 108-31-6
CMF C4 H2 O3



CM 6

CRN 100-42-5
CMF C8 H8

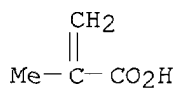


CM 7

CRN 61970-25-0
CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 8

CRN 79-41-4
CMF C4 H6 O2

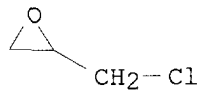


CM 9

CRN 25068-38-6
CMF (C15 H16 O2 . C3 H5 Cl O)x
CCI PMS

CM 10

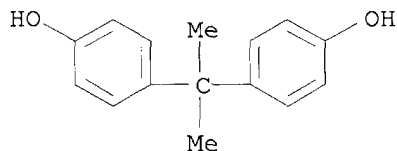
CRN 106-89-8
CMF C3 H5 Cl O



CM 11

CRN 80-05-7

CMF C15 H16 O2



RN 161539-05-5 HCAPLUS

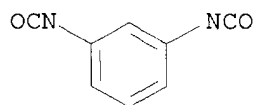
CN 2-Propenoic acid, 2-methyl-, polymer with 1,3-diisocyanatomethylbenzene, ethenylbenzene, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-propen-1-amine (9CI) (CA INDEX NAME)

CM 1

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



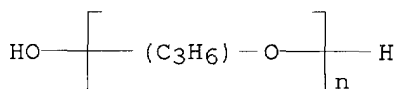
D1-Me

CM 2

CRN 25322-69-4

CMF (C3 H6 O)n H2 O

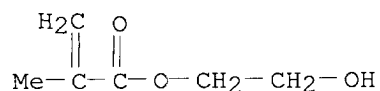
CCI IDS, PMS



CM 3

CRN 868-77-9

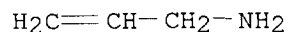
CMF C6 H10 O3



CM 4

CRN 107-11-9

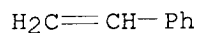
CMF C3 H7 N



CM 5

CRN 100-42-5

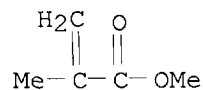
CMF C8 H8



CM 6

CRN 80-62-6

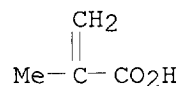
CMF C5 H8 O2



CM 7

CRN 79-41-4

CMF C4 H6 O2



RN 161589-19-1 HCAPLUS

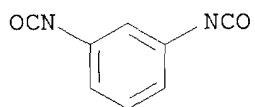
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, 1,3-diisocyanatomethylbenzene, ethenylbenzene, 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], magnesium salt (9CI) (CA INDEX NAME)

CM 1

CRN 161589-18-0
 CMF ((C15 H16 O2 . C3 H5 Cl O)x . C9 H6 N2 O2 . C8 H8 . C6 H10 O3 . x C4
 H6 O2 . C4 H2 O3 . (C3 H6 O)n H2 O)x
 CCI PMS

CM 2

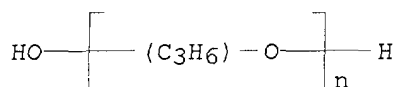
CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



D1-Me

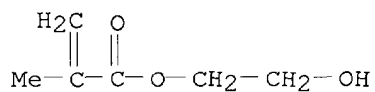
CM 3

CRN 25322-69-4
 CMF (C3 H6 O)n H2 O
 CCI IDS, PMS



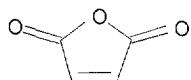
CM 4

CRN 868-77-9
 CMF C6 H10 O3



CM 5

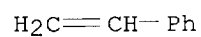
CRN 108-31-6
 CMF C4 H2 O3



CM 6

CRN 100-42-5

CMF C8 H8



CM 7

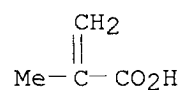
CRN 61970-25-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 8

CRN 79-41-4

CMF C4 H6 O2



CM 9

CRN 25068-38-6

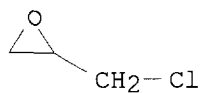
CMF (C15 H16 O2 . C3 H5 Cl O)x

CCI PMS

CM 10

CRN 106-89-8

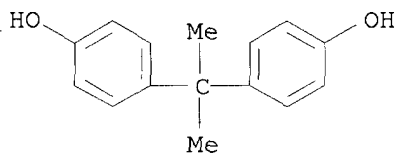
CMF C3 H5 Cl O



CM 11

CRN 80-05-7

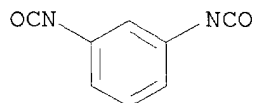
CMF C15 H16 O2



RN 161843-98-7 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, 1,3-diisocyanatomethylbenzene, ethenylbenzene, .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], 2-hydroxyethyl 2-methyl-2-propenoate and 2-propen-1-amine (9CI) (CA INDEX NAME)

CM 1

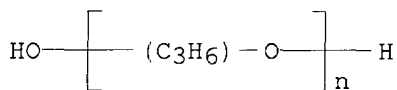
CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



D1-Me

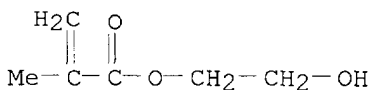
CM 2

CRN 25322-69-4
 CMF (C3 H6 O)_n H2 O
 CCI IDS, PMS



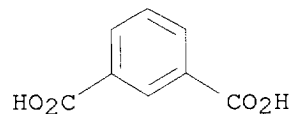
CM 3

CRN 868-77-9
 CMF C6 H10 O3



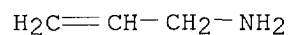
CM 4

CRN 121-91-5
CMF C8 H6 O4



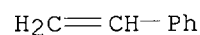
CM 5

CRN 107-11-9
CMF C3 H7 N



CM 6

CRN 100-42-5
CMF C8 H8

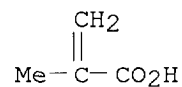


CM 7

CRN 61970-25-0
CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 8

CRN 79-41-4
CMF C4 H6 O2



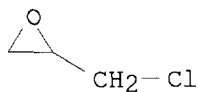
CM 9

CRN 25068-38-6
CMF (C15 H16 O2 . C3 H5 Cl O)x
CCI PMS

CM 10

CRN 106-89-8

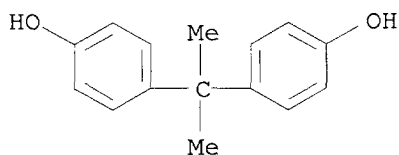
CMF C3 H5 Cl O



CM 11

CRN 80-05-7

CMF C15 H16 O2



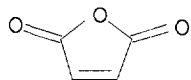
RN 161843-99-8 HCAPLUS

CN 2,5-Furandione, polymer with (chloromethyl)oxirane polymer with
4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, ethenylbenzene
and 2-propen-1-amine (9CI) (CA INDEX NAME)

CM 1

CRN 108-31-6

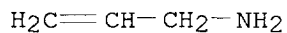
CMF C4 H2 O3



CM 2

CRN 107-11-9

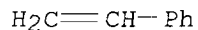
CMF C3 H7 N



CM 3

CRN 100-42-5

CMF C8 H8



CM 4

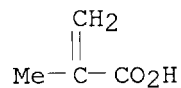
CRN 61970-25-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 5

CRN 79-41-4

CMF C4 H6 O2



CM 6

CRN 25068-38-6

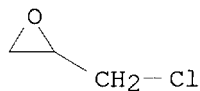
CMF (C15 H16 O2 . C3 H5 Cl O)x

CCI PMS

CM 7

CRN 106-89-8

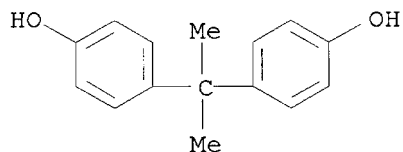
CMF C3 H5 Cl O



CM 8

CRN 80-05-7

CMF C15 H16 O2



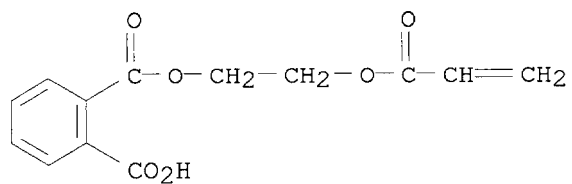
RN 161897-81-0 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, ethenylbenzene and 1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

CM 1

CRN 30697-40-6

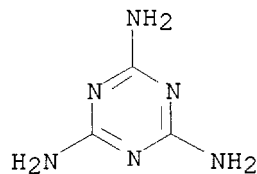
CMF C13 H12 O6



CM 2

CRN 108-78-1

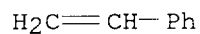
CMF C3 H6 N6



CM 3

CRN 100-42-5

CMF C8 H8



CM 4

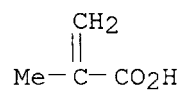
CRN 61970-25-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 5

CRN 79-41-4

CMF C4 H6 O2



CM 6

CRN 25068-38-6

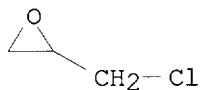
CMF (C15 H16 O2 . C3 H5 Cl O)x

CCI PMS

CM 7

CRN 106-89-8

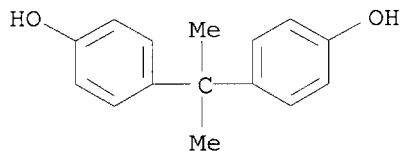
CMF C3 H5 Cl O



CM 8

CRN 80-05-7

CMF C15 H16 O2



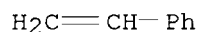
RN 161929-47-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate and 2-methyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

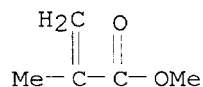
CMF C8 H8



CM 2

CRN 80-62-6

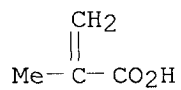
CMF C5 H8 O2



CM 3

CRN 79-41-4

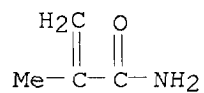
CMF C4 H6 O2



CM 4

CRN 79-39-0

CMF C4 H7 N O



CM 5

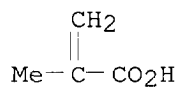
CRN 61970-25-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 6

CRN 79-41-4

CMF C4 H6 O2



CM 7

CRN 25068-38-6

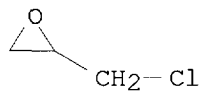
CMF (C15 H16 O2 . C3 H5 Cl O)x

CCI PMS

CM 8

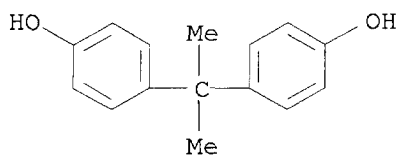
CRN 106-89-8

. CMF C3 H5 Cl O



CM 9

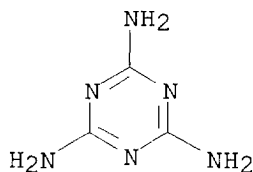
CRN 80-05-7
CMF C15 H16 O2



RN 162023-53-2 HCAPLUS
CN 2,5-Furandione, polymer with (chloromethyl)oxirane polymer with
4,4'-(1-methylethylidene)bis[phenol] 2-propenoate, ethenylbenzene and
1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

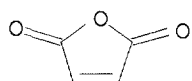
CM 1

CRN 108-78-1
CMF C3 H6 N6



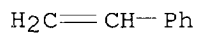
CM 2

CRN 108-31-6
CMF C4 H2 O3



CM 3

CRN 100-42-5
CMF C8 H8

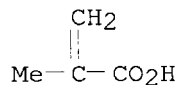


CM 4

CRN 61970-25-0
CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 5

CRN 79-41-4
CMF C4 H6 O2

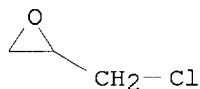


CM 6

CRN 25068-38-6
CMF (C15 H16 O2 . C3 H5 Cl O) x
CCI PMS

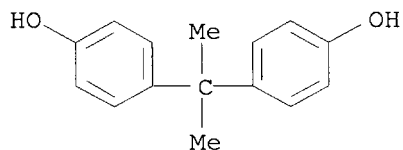
CM 7

CRN 106-89-8
CMF C3 H5 Cl O



CM 8

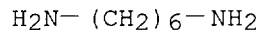
CRN 80-05-7
CMF C15 H16 O2



RN 162157-77-9 HCAPLUS
CN 1,3-Benzenedicarboxylic acid, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-methyl-2-propenoate, ethenylbenzene, 2,5-furandione, 1,6-hexanediamine, 1,2-propanediol and 1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

CM 1

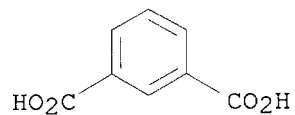
CRN 124-09-4
CMF C6 H16 N2



CM 2

CRN 121-91-5

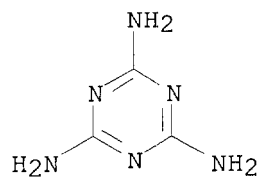
CMF C8 H6 O4



CM 3

CRN 108-78-1

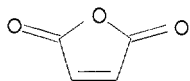
CMF C3 H6 N6



CM 4

CRN 108-31-6

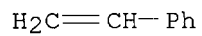
CMF C4 H2 O3



CM 5

CRN 100-42-5

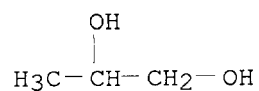
CMF C8 H8



CM 6

CRN 57-55-6

CMF C3 H8 O2



CM 7

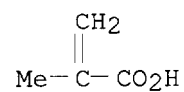
CRN 61970-25-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C4 H6 O2

CM 8

CRN 79-41-4

CMF C4 H6 O2



CM 9

CRN 25068-38-6

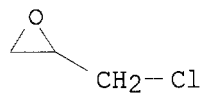
CMF (C15 H16 O2 . C3 H5 Cl O)x

CCI PMS

CM 10

CRN 106-89-8

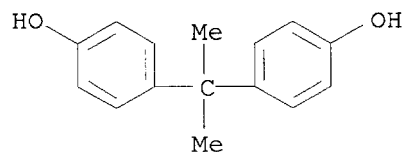
CMF C3 H5 Cl O



CM 11

CRN 80-05-7

CMF C15 H16 O2



L46 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2003 ACS
AN 1992:43188 HCAPLUS

KATHLEEN FULLER EIC 1700/PARKER LAW 308-4290

DN 116:43188
 TI Matte coating **compositions**
 IN Ozaki, Makoto; Kageyama, Takao; Saito, Takehiro
 PA Nippon Paint Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C09D005-00
 CC 42-10 (Coatings, Inks, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03064374	A2	19910319	JP 1989-199227	19890802
PRAI	JP 1989-199227		19890802		

AB The title **comps.** with good weatherability and decorative property comprise 100 parts thermosetting or thermoplastic resins, 1-100 parts composite particles loaded with pigments, and 10-1000 parts solvents. Thus, styrene 92, Me methacrylate 140, Bu acrylate 20, ethylhexyl methacrylate 116, and itaconic anhydride 32 g were polymd. and neutralized with 38.5 g stearylamine and 50.8 g dimethylethanamine to give a 51.5%-solid amphoteric polymer varnish, which was blended with 168 g carbon black and 480 g AcOEt to give a black pigment paste. Then, the paste 10, styrene 30, Me methacrylate 20, Bu acrylate 10, ethylene glycol dimethacrylate 40, and 2,2'-azobis(2-methylpropionitrile) 1 g were suspended in H2O and heated at 80.degree. to give 11%-solids suspension of carbon black-covered resin particles, 30 parts (solids) of which was blended with 351.5 parts paste contg. carbon black 3, ACR 420 (50% acrylic resin varnish) 135.8, and solvents 212.7 parts and 48.5 parts MF 004 (60% melamine resin varnish) to give a matte top **compn.** A Zn3(PO4)2-treated steel plate precoated with a cationic electrophoretic layer and a midlayer was sprayed with the **compn.** thinned with Solvesso 100-xylene-Solvesso 150 mixt., set 7 min at room temp., and baked 30 min at 140.degree. to give a coating with 60.degree. gloss .ltoreq.10% and good weatherability.

ST matte coating pigment weatherability; thermosetting resin coating matte; thermoplastic resin coating matte

IT Carbon black, uses
 RL: USES (Uses)
 (pigments, resin particles covered by, for weather-resistant matte coatings)

IT Coating materials
 (matte, weather-resistant, thermosetting- or thermoplastic resin-based, contg. pigment-covered resin particles)

IT 9002-88-4D, Polyethylene, chlorinated 86753-49-3, Superchlone 510
 138483-02-0 138483-03-1
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coatings, contg. pigment-covered resin particles, matte, with good weatherability)

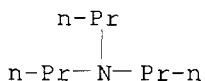
IT 147-14-8, Phthalocyanine blue 51274-00-1, Mapico Yellow LL-XLO
 138185-73-6, Paliogen Red 3910
 RL: USES (Uses)
 (pigments, resin particles covered by, for weather-resistant matte coatings)

IT **136326-83-5P 138105-23-4P 138471-24-6P 138471-26-8P**
 RL: **PREP (Preparation)**
 (prepn. of, **dispersants**, in manuf. of pigment-covered resin

particles, for matte coatings)
 IT **27136-15-8P**, Butyl acrylate-methyl methacrylate-styrene copolymer
59809-02-8P, Butyl acrylate-ethylene glycol dimethacrylate-methyl
 methacrylate-styrene copolymer **66599-53-9P**
 RL: PREP (Preparation)
 (prepn. of, particles, pigment-covered, for weather-resistant matte
 coatings)
 IT **136326-83-5P 138105-23-4P 138471-24-6P**
138471-26-8P
 RL: PREP (Preparation)
 (prepn. of, **dispersants**, in manuf. of pigment-covered resin
 particles, for matte coatings)
 RN 136326-83-5 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, 2-ethylhexyl
 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl
 2-methyl-2-propenoate, compd. with N,N-dipropyl-1-propanamine (9CI) (CA
 INDEX NAME)

 CM 1

 CRN 102-69-2
 CMF C9 H21 N

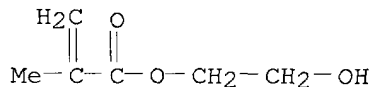


CM 2

 CRN 52757-51-4
 CMF (C12 H22 O2 . C8 H8 . C6 H10 O3 . C5 H8 O2 . C4 H6 O2)x
 CCI PMS

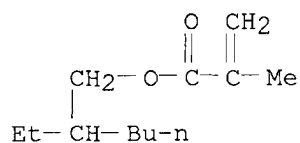
 CM 3

 CRN 868-77-9
 CMF C6 H10 O3



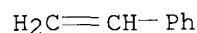
CM 4

 CRN 688-84-6
 CMF C12 H22 O2



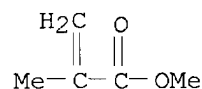
CM 5

CRN 100-42-5
CMF C8 H8



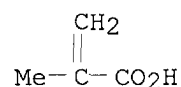
CM 6

CRN 80-62-6
CMF C5 H8 O2



CM 7

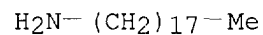
CRN 79-41-4
CMF C4 H6 O2



RN 138105-23-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with butyl
2-propenoate, dihydro-3-methylene-2,5-furandione, 2-ethylhexyl
2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, compd. with
2-(dimethylamino)ethanol and 1-octadecanamine (9CI) (CA INDEX NAME)

CM 1

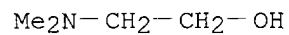
CRN 124-30-1
CMF C18 H39 N



CM 2

CRN 108-01-0

CMF C4 H11 N O



CM 3

CRN 136326-81-3

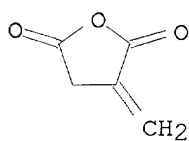
CMF (C12 H22 O2 . C8 H8 . C7 H12 O2 . C5 H8 O2 . C5 H4 O3)x

CCI PMS

CM 4

CRN 2170-03-8

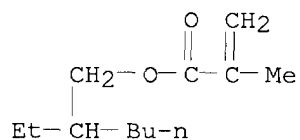
CMF C5 H4 O3



CM 5

CRN 688-84-6

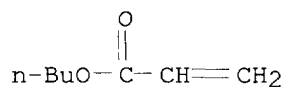
CMF C12 H22 O2



CM 6

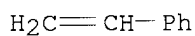
CRN 141-32-2

CMF C7 H12 O2



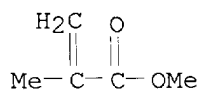
CM 7

CRN 100-42-5
CMF C8 H8



CM 8

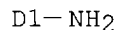
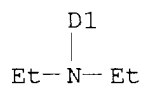
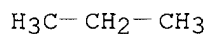
CRN 80-62-6
CMF C5 H8 O2



RN 138471-24-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with butyl
2-propenoate, dihydro-3-methylene-2,5-furandione, methyl
2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate, compd.
with N,N-diethylpropanediamine, 2-(dimethylamino)ethanol and
1-octadecanamine (9CI) (CA INDEX NAME)

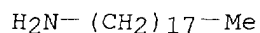
CM 1

CRN 30351-09-8
CMF C7 H18 N2
CCI IDS



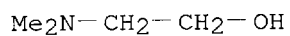
CM 2

CRN 124-30-1
CMF C18 H39 N



CM 3

CRN 108-01-0
CMF C4 H11 N O

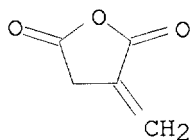


CM 4

CRN 136326-84-6
CMF (C16 H30 O2 . C8 H14 O2 . C7 H12 O2 . C5 H8 O2 . C5 H4 O3)x
CCI PMS

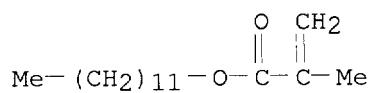
CM 5

CRN 2170-03-8
CMF C5 H4 O3



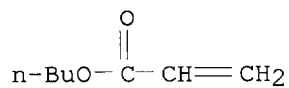
CM 6

CRN 142-90-5
CMF C16 H30 O2



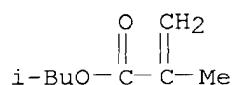
CM 7

CRN 141-32-2
CMF C7 H12 O2



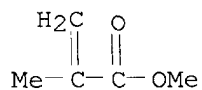
CM 8

CRN 97-86-9
CMF C8 H14 O2



CM 9

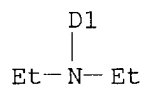
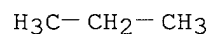
CRN 80-62-6
CMF C5 H8 O2



RN 138471-26-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with ethenylbenzene, 2,5-furandione, 2-methylpropyl 2-propenoate and 2-propenoic acid, compd. with N,N-diethylethanamine, N,N-diethylpropanediamine and 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

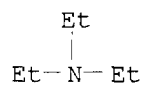
CRN 30351-09-8
CMF C7 H18 N2
CCI IDS



D1-NH₂

CM 2

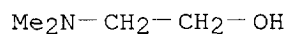
CRN 121-44-8
CMF C6 H15 N



CM 3

CRN 108-01-0

CMF C4 H11 N O



CM 4

CRN 138471-25-7

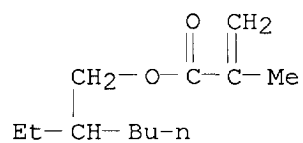
CMF (C12 H22 O2 . C8 H8 . C7 H12 O2 . C4 H2 O3 . C3 H4 O2)x

CCI PMS

CM 5

CRN 688-84-6

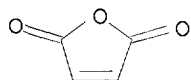
CMF C12 H22 O2



CM 6

CRN 108-31-6

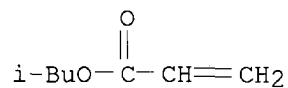
CMF C4 H2 O3



CM 7

CRN 106-63-8

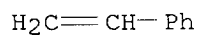
CMF C7 H12 O2



CM 8

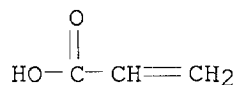
CRN 100-42-5

CMF C8 H8



CM 9

CRN 79-10-7
CMF C3 H4 O2



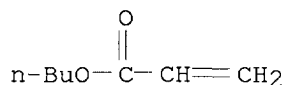
IT **27136-15-8P**, Butyl acrylate-methyl methacrylate-styrene copolymer
59809-02-8P, Butyl acrylate-ethylene glycol dimethacrylate-methyl
methacrylate-styrene copolymer **66599-53-9P**
RL: PREP (Preparation)
(prepn. of, particles, pigment-covered, for weather-resistant matte
coatings)

RN 27136-15-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate
and ethenylbenzene (9CI) (CA INDEX NAME)

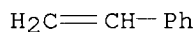
CM 1

CRN 141-32-2
CMF C7 H12 O2



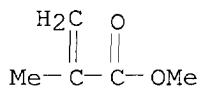
CM 2

CRN 100-42-5
CMF C8 H8



CM 3

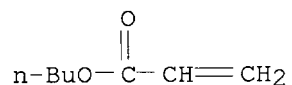
CRN 80-62-6
CMF C5 H8 O2



RN 59809-02-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl
 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate (9CI) (CA
 INDEX NAME)

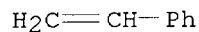
CM 1

CRN 141-32-2
 CMF C7 H12 O2



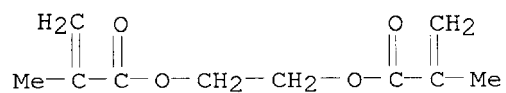
CM 2

CRN 100-42-5
 CMF C8 H8



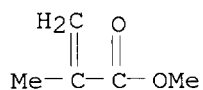
CM 3

CRN 97-90-5
 CMF C10 H14 O4



CM 4

CRN 80-62-6
 CMF C5 H8 O2

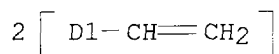


RN 66599-53-9 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
 2-propenoate, diethenylbenzene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

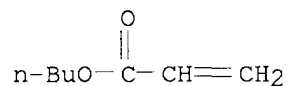
CRN 1321-74-0

CMF C10 H10
CCI IDS



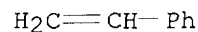
CM 2

CRN 141-32-2
CMF C7 H12 O2



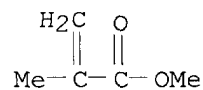
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 80-62-6
CMF C5 H8 O2



L46 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2003 ACS
AN 1992:42272 HCAPLUS
DN 116:42272
TI Preparation of **aqueous dispersions** of hydroxylated
copolymers bearing imide groups
IN Blum, Harald; Schneider, Volker; Hoehlein, Peter
PA Bayer A.-G., Germany
SO Ger. Offen., 15 pp.
CODEN: GWXXBX

DT Patent
 LA German
 IC ICM C08F008-32
 ICS C08F220-10; C08F222-40; C08F222-38; C08F222-02; C08F220-04;
 C08L033-00; C08L035-00; C09J133-00; C09D133-00; C09D135-00;
 C09K003-10
 ICA C08F212-08; C08J003-24; C08J003-03; C09D011-10
 ICI C08L061-00, C08L075-00; C09J133-00, C09J135-00
 CC 35-8 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4010794	A1	19911010	DE 1990-4010794	19900404
	CA 2037373	AA	19911005	CA 1991-2037373	19910228
	EP 452696	A2	19911023	EP 1991-104487	19910322
	EP 452696	A3	19920916		
	EP 452696	B1	19950118		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	ES 2069762	T3	19950516	ES 1991-104487	19910322
	US 5134188	A	19920728	US 1991-675388	19910326
	JP 05339314	A2	19931221	JP 1991-91560	19910329
PRAI	DE 1990-4010794		19900404		
AB	The title dispersions , useful in coatings, sealants, and adhesives, contain polymers contg. N-(hydroxyhydrocarbyl)maleimides 1-70, unsatd. mono- or dicarboxylic acids 2-25, vinyl monomers 1-75, (cyclo)alkyl (meth) acrylates 15-95, and polyunsatd. compds. 0-15 parts. Perester-initiated polymn. of maleic anhydride 200, MMA 380, Bu acrylate 600, acrylic acid 140, 2-ethylhexyl acrylate 400, and styrene 200 g in 1966 g 50:50 solvent naphtha-BuOAc at 125.degree., heating 3600 g this soln. with 151.2 g 1-amino-2-propanol in 585 g solvent naphtha at 140-148.degree., dispersing this soln. in H ₂ O contg. 60.3 g Me ₂ NCH ₂ CH ₂ OH, and distg. solvents gave a 36% dispersion of a polymer with acid no. 56, degree of neutralization 39%, and (hydroxypropyl)maleimide content 15%.				
ST	maleic anhydride copolymer imide; maleimide deriv copolymer; methacrylate copolymer aq; acrylate copolymer aq; acrylic acid copolymer aq; coating water thinned polymer; aminopropanol adduct anhydride copolymer				
IT	Polyesters, compounds RL: USES (Uses) (polymers, ethers with (hydroxyalkyl)imide group-contg. acrylic , water-thinned, manuf. of)				
IT	Adhesives Coating materials Sealing compositions (water-thinned, (hydroxyalkyl)imide group-contg. acrylic polymers, manuf. of)				
IT	60-32-2DP, 6-Aminohexanoic acid, reaction products with maleic anhydride copolymers and aminopropanol 78-96-6DP, 1-Amino-2-propanol, reaction products with maleic anhydride copolymer 141-43-5DP, 2-Aminoethanol, reaction products with maleic anhydride copolymer 541-59-3DP, Maleimide, hydroxyalkyl derivs., polymers 24980-41-4DP , Polycaprolactone, ethers with (hydroxyalkyl)imide group-contg. acrylic polymers 25248-42-4DP , Polycaprolactone, SRU, ethers with (hydroxyalkyl)imide group-contg. acrylic polymers 40411-34-5DP , reaction products with aminopropanol and				

aminohexanoic acid **133736-14-8DP**, reaction products with aminopropanol and aminohexanoic acid **138321-65-ODP**, (hydroxyalkyl)**imide** derivs.

RL: **PREP (Preparation)**

(aq. **dispersions**, manuf. of)

IT **138321-66-1D**, reaction products with aminohexanoic acid and aminopropanol

RL: **USES (Uses)**

(coatings, water-thinned, solvent-resistant)

IT **24980-41-4DP**, Polycaprolactone, ethers with (hydroxyalkyl)**imide** group-contg. **acrylic** polymers **25248-42-4DP**, Polycaprolactone, SRU, ethers with (hydroxyalkyl)**imide** group-contg.

acrylic polymers **40411-34-5DP**, reaction products with aminopropanol and aminohexanoic acid **133736-14-8DP**, reaction products with aminopropanol and aminohexanoic acid **138321-65-ODP**, (hydroxyalkyl)**imide** derivs.

RL: **PREP (Preparation)**

(aq. **dispersions**, manuf. of)

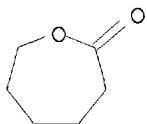
RN 24980-41-4 HCAPLUS

CN 2-Oxepanone, homopolymer (9CI) (CA INDEX NAME)

CM 1

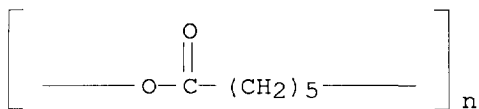
CRN 502-44-3

CMF C6 H10 O2



RN 25248-42-4 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)] (9CI) (CA INDEX NAME)



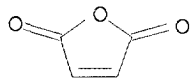
RN 40411-34-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

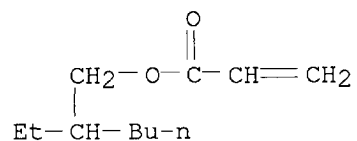
CRN 108-31-6

CMF C4 H2 O3



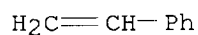
CM 2

CRN 103-11-7
CMF C11 H20 O2



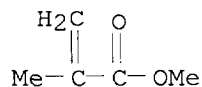
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

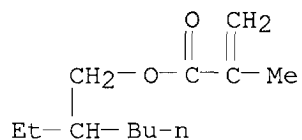
CRN 80-62-6
CMF C5 H8 O2



RN 133736-14-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with butyl
2-propenoate, ethenylbenzene, 2,5-furandione and methyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

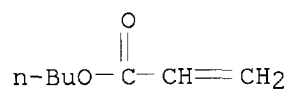
CM 1

CRN 688-84-6
CMF C12 H22 O2



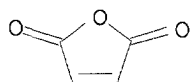
CM 2

CRN 141-32-2
CMF C7 H12 O2



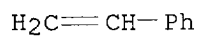
CM 3

CRN 108-31-6
CMF C4 H2 O3



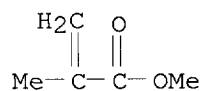
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

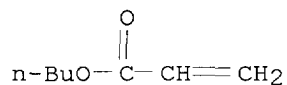
CRN 80-62-6
CMF C5 H8 O2



RN 138321-65-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, 2,5-furandione
and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

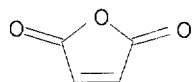
CRN 141-32-2
CMF C7 H12 O2



CM 2

CRN 108-31-6

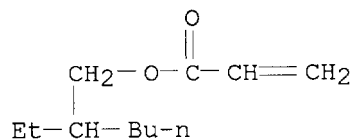
CMF C4 H2 O3



CM 3

CRN 103-11-7

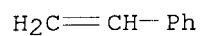
CMF C11 H20 O2



CM 4

CRN 100-42-5

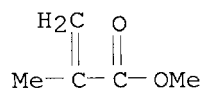
CMF C8 H8



CM 5

CRN 80-62-6

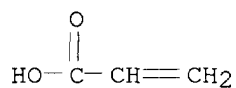
CMF C5 H8 O2



CM 6

CRN 79-10-7

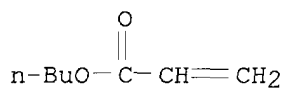
CMF C3 H4 O2



IT **138321-66-1D**, reaction products with aminohexanoic acid and
aminopropanol
RL: USES (Uses)
(coatings, water-thinned, solvent-resistant)
RN 138321-66-1 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene, 2-ethylhexyl
2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

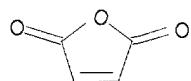
CM 1

CRN 141-32-2
CMF C7 H12 O2



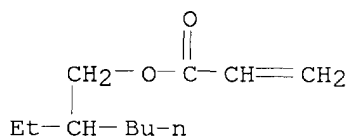
CM 2

CRN 108-31-6
CMF C4 H2 O3



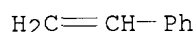
CM 3

CRN 103-11-7
CMF C11 H20 O2



CM 4

CRN 100-42-5
CMF C8 H8



L46 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2003 ACS

AN 1984:104554 HCAPLUS

DN 100:104554

TI Thermoplastic polymeric material

IN Kasahara, Hideo; Tazaki, Kichiya; Fukuda, Kunio; Suzuki, Hiroshi

PA Asahi-Dow Ltd. , Japan

SO U.S., 17 pp. Cont.-in-part of U.S. Ser. No. 190,737, abandoned.

CODEN: USXXAM

DT Patent

LA English

IC C08G081-02

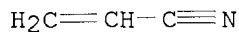
NCL 524514000

CC 37-6 (Plastics Manufacture and Processing)

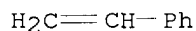
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4421892	A	19831220	US 1982-375685	19820506
	JP 56050931	A2	19810508	JP 1979-127298	19791004
	JP 61056249	B4	19861201		
	JP 56053134	A2	19810512	JP 1979-129467	19791009
	JP 61060097	B4	19861219		
	JP 56070055	A2	19810611	JP 1979-146506	19791114
	JP 60059257	B4	19851224		
	JP 56110761	A2	19810902	JP 1980-13560	19800208
	JP 60047304	B4	19851021		
PRAI	JP 1979-127298		19791004		
	JP 1979-129467		19791009		
	JP 1979-146506		19791114		
	JP 1980-13560		19800208		
	US 1980-190737		19800925		
	US 1982-355384		19820308		
AB	Polymer compns. with high mech. strength, having a fine dispersion microstructure, comprises the reaction product of a maleic anhydride copolymer (10-65%) and 35-90% polyamide. Thus, 50 parts polycaprolactam and 50 parts maleic anhydride-Me methacrylate-styrene copolymer were coextruded at 160.degree. at shear rate 400 s-1 to give a copolymer [77875-10-6] having a fine structure as obsd. by electron microscopy. A phys. mixt. of the 2 polymers had a coarse structure. A solvent fractionation test confirmed that the hot extruded product resulted from reaction of the 2 polymers.				
ST	polycaprolactam maleic anhydride copolymer; polyamide maleic anhydride copolymer				
IT	Carbon fibers				
	Glass fibers, uses and miscellaneous				
	RL: USES (Uses)				
	(polyamide-maleic anhydride copolymers reinforced by)				
IT	Polyamides, preparation				
	RL: PREP (Preparation)				
	(polymers with maleic anhydride copolymers, with fine structure)				
IT	9003-54-7P				
	RL: PREP (Preparation)				
	(glass fiber-reinforced, contg. maleic anhydride-Me methacrylate-caprolactam-styrene copolymer, manuf. of, with fine structure)				

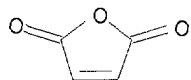
IT 36563-19-6P 42033-11-4P 77874-99-8P
 77875-10-6P
 RL: PREP (Preparation)
 (manuf. of, with fine structure)
 IT 9003-54-7P
 RL: PREP (Preparation)
 (glass fiber-reinforced, contg. maleic anhydride-Me
 methacrylate-caprolactam-styrene copolymer, manuf. of, with fine
 structure)
 RN 9003-54-7 HCAPLUS
 CN 2-Propenenitrile, polymer with ethenylbenzene (9CI) (CA INDEX NAME)
 CM 1
 CRN 107-13-1
 CMF C3 H3 N



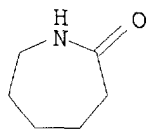
CM 2
 CRN 100-42-5
 CMF C8 H8



IT 36563-19-6P 42033-11-4P 77874-99-8P
 77875-10-6P
 RL: PREP (Preparation)
 (manuf. of, with fine structure)
 RN 36563-19-6 HCAPLUS
 CN 2,5-Furandione, polymer with ethenylbenzene and hexahydro-2H-azepin-2-one
 (9CI) (CA INDEX NAME)
 CM 1
 CRN 108-31-6
 CMF C4 H2 O3



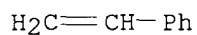
CM 2
 CRN 105-60-2
 CMF C6 H11 N O



CM 3

CRN 100-42-5

CMF C8 H8



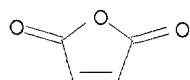
RN 42033-11-4 HCAPLUS

CN 2-Propenenitrile, polymer with ethenylbenzene, 2,5-furandione and hexahydro-2H-azepin-2-one (9CI) (CA INDEX NAME)

CM 1

CRN 108-31-6

CMF C4 H2 O3



CM 2

CRN 107-13-1

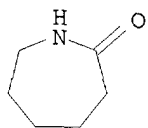
CMF C3 H3 N



CM 3

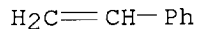
CRN 105-60-2

CMF C6 H11 N O



CM 4

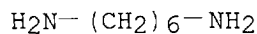
CRN 100-42-5
CMF C8 H8



RN 77874-99-8 HCAPLUS
CN Hexanedioic acid, polymer with ethenylbenzene, 2,5-furandione and 1,6-hexanediamine (9CI) (CA INDEX NAME)

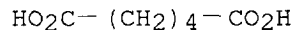
CM 1

CRN 124-09-4
CMF C6 H16 N2



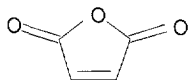
CM 2

CRN 124-04-9
CMF C6 H10 O4



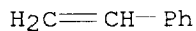
CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

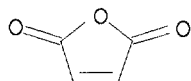
CRN 100-42-5
CMF C8 H8



RN 77875-10-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2,5-furandione and hexahydro-2H-azepin-2-one (9CI) (CA INDEX NAME)

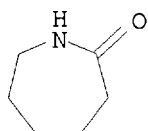
CM 1

CRN 108-31-6
CMF C4 H2 O3



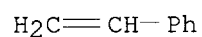
CM 2

CRN 105-60-2
CMF C6 H11 N O



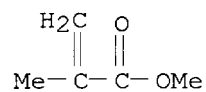
CM 3

CRN 100-42-5
CMF C8 H8



CM 4

CRN 80-62-6
CMF C5 H8 O2



=> SAVE TEMP FOR019/A L46
ANSWER SET L46 HAS BEEN SAVED AS 'FOR019/A'

=> D HIS FUL

(FILE 'HOME' ENTERED AT 09:16:35 ON 10 JUL 2003)

FILE 'HCAPLUS' ENTERED AT 09:17:07 ON 10 JUL 2003
E FR99-7910/PRN,AP

KATHLEEN FULLER EIC 1700/PARKER LAW 308-4290